

THE UNIVERSITY OF THE
STATE OF GEORGIA

Georgia State College of Agriculture Athens, Ga.



CATALOGUE

1920-1921

Volume VIII

Bulletin No. 202

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THE
NORTH
AMERICAN
COLLEGE



CATALOGUE

1920-1921



Georgia State College of Agriculture

Athens, Ga.

DISABLED MEN

Arrangements are made by the United States Government for the training of soldiers, sailors and marines who have been disabled during the recent war by injury or disease.

Under the Federal Board for Vocational Education, such men are placed in schools, colleges or shops to prepare for new vocations or to overcome their physical handicaps so they can follow their old occupations.

While in training, these students are supported by the Federal Government. All tuition fees, laboratory fees, etc., are also paid from government funds.

When training is completed, the government finds positions.

Agriculture affords splendid opportunities. Many disabled soldiers decide to study scientific farming.

For information write to
Federal Board for Vocational Education,
District 5, 823 Forsyth Bldg.,
Atlanta, Ga.

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Georgia State College of Agriculture of the University of Georgia

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Messrs. Hardman, McMullan and Hayes.

CALENDAR

June 22, Tuesday:	Opening of the Summer School.
July 31, Saturday:	Close of the Summer School.
September 11:	Meeting of the Faculty.
September 13:	First day of Registration.
September 13-16	Examinations for Entrance.
September 15:	Opening of the First Term.
November 25:	Thanksgiving Day.
December 23:	Close of the First Term.
January 3:	Opening of the Second Term.
February 21:	Birthday of General R. E. Lee. Exercises in commemoration of the 120th Anniversary of the Demosthenian Society and the 101st Anniversary of the Phi Kappa Society.
February 22:	Washington's Birthday.
March 19:	Close of the Second Term.
March 21:	Opening of the Third Term.
May 20:	Last date for submission of Prize Essays.
June 6:	Meeting of the Board of Visitors.
June 9:	Annual Session of the Board of Trustees.
June 9-11	Examinations for Entrance.
June 10, Friday:	4:00 P. M., Military exercises and drill.
June 11, Saturday:	8:30 P. M., Sophomore declamation contest.
June 12, Sunday:	10:30 A. M., Exercises of the undergraduates representing the branches of the Univer- sity.
June 13, Monday:	8:30 P. M., Champion debate between the Phi Kappa and Demosthenian Societies.
June 14, Tuesday:	10:30 A. M., Business meeting of the Alumni Society. 12 M., Oration before the Alumni Society. 4:30 P. M., Junior orations and delivery of Sophomore cup.
June 15, Wednesday:	Commencement Day. Close of the 121st an- nual session.

FACULTY COMMITTEES

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2. **Self-Help**—Professors Fain, Jarnagin, McHatton, Campbell, Miss Creswell, Maddux, Wood, Severin.
3. **Schedule**—Professors Fain, Worsham, Berry, Burson, Miss Rathbone, Wheeler, Burkhardt.
4. **Curriculum**—Professors McHatton, Fain, Berry, Jarnagin, Crabb, Worsham, Burson, Wheeler, Miss Creswell, Wood.
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9. **Publications**—Professors Worsham, Maddux, Fain, Carter, Campbell, McHatton, Wheeler, Miss N. Reese, Thornton, Miss Boggess.
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11. **Field Enterprises**—Professors Fain, Worsham, Long, Crabb, Phillips, Carter, Childs, Westbrook, Hungerford.
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16. **Rehabilitation**—Professors Fain, McWhorter, Crabb, Alexander, Miller, Mobley, Saye, Miss McKinley, Miss Treanor.

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Colquitt - - - - -	Texas Henderson - - - - -	Moultrie
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Whitfield - - - - -	Jewel Colclough - - - - -	Dalton
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Washington - - - - -	Cla Emma Brawner - - - - -	Sandersville
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Worth - - - - -	Mary Allen Overby, A.B. - - - - -	Sylvester

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As required by the Smith-Lever Act and a memorandum of agreement between the Board of Trustees of the Georgia State College of Agriculture and the United States Department of Agriculture the following negro agents are employed to carry on extension work in agriculture and home economics exclusively among negroes:

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Alva Tabor, Sandersville—Washington Institute.

O. S. O'Neal, Fort Valley.

Jennie C. O'Neal, Fort Valley.

Juanita Conyers, Savannah.

The Georgia State College of Agriculture

HISTORICAL STATEMENT

The Georgia State College of Agriculture was organized in accordance with an act of the General Assembly of the State passed July 21, 1906. It is an outgrowth of the State College of Agriculture and Mechanic Arts established as a department of the University of Georgia on May 1, 1872, by the Trustees of the University who accepted for the purpose, funds arising from the landscrip. From time to time support was received from the federal government, until the State, realizing that agriculture represents its principal industry, decided by legislative enactment to differentiate and specifically support an agricultural college.

The act of 1906 establishing the present College and better known as the "Conner Bill," contains the following preamble which sets forth reasons for enlarging the work of the State College of Agriculture along both educational and research lines:

"Agriculture is the principal industry of the State, and the main source from which the material prosperity of the State must come. Experience has demonstrated the great value of agricultural education in permanently improving the soil, multiplying its yield and increasing the value of its products. There is a growing demand by the people of the State for agricultural education, and for the practical benefits of scientific research in this line, and for improved methods in farming."

This act provides that the State College of Agriculture shall be under the direction of a Board of Trustees, consisting of eleven men, three selected from the trustees of the University proper, three from the directors of the Georgia Experiment Station, including the Commissioner of Agriculture, and five from the State at large. The Board has the same functions and exercises the same authority as that of the trustees of similarly organized and coördinated divisions of the University,

but is subject, in accordance with the provisions of the constitution of the State, to the general control of the University trustees.

The Georgia State College of Agriculture constitutes an integral part of the University System of Georgia, and while it has certain buildings, lands and equipment set aside for the special use of its corps of instructors and students, its work in general is closely associated with the University proper, so that agricultural students enjoy all the advantages which a great university system affords. These advantages include instruction and advice from the professors in other colleges, use of the general libraries and scientific laboratories, and membership in the various class and society organizations. This is most desirable, since classroom training is but a part of a man's education.

GENERAL STATEMENT

Objects of the College

The purpose and plan of the College of Agriculture is, first to train agricultural students in the sciences pertaining to correct farm practice that they may receive a thorough and liberal education; second, to so arrange the course of instruction that men of limited means, opportunity and education may receive the greatest practical benefit by attending courses of varying length provided by the College; third, to take an active part in the dissemination of agricultural knowledge among the farmers of the state by means of extension teaching, farmers' institutes, bulletins, and other publications of a popular and practical nature, and to encourage and promote research in every legitimate way.

Buildings and Equipment

The plant of the Georgia State College of Agriculture consists of a farm of 830 acres and six main buildings: the administrative building, agricultural engineering building, veterinary building, woman's building, livestock building, and the vocational educational building. In addition, there is a large

dairy and livestock barn, a model greenhouse of three sections, a poultry plant and a number of special buildings for the different divisions. The entire plant is devoted to the teaching of agricultural subjects. The dormitories and buildings for literary work are located on the campus of the University proper.

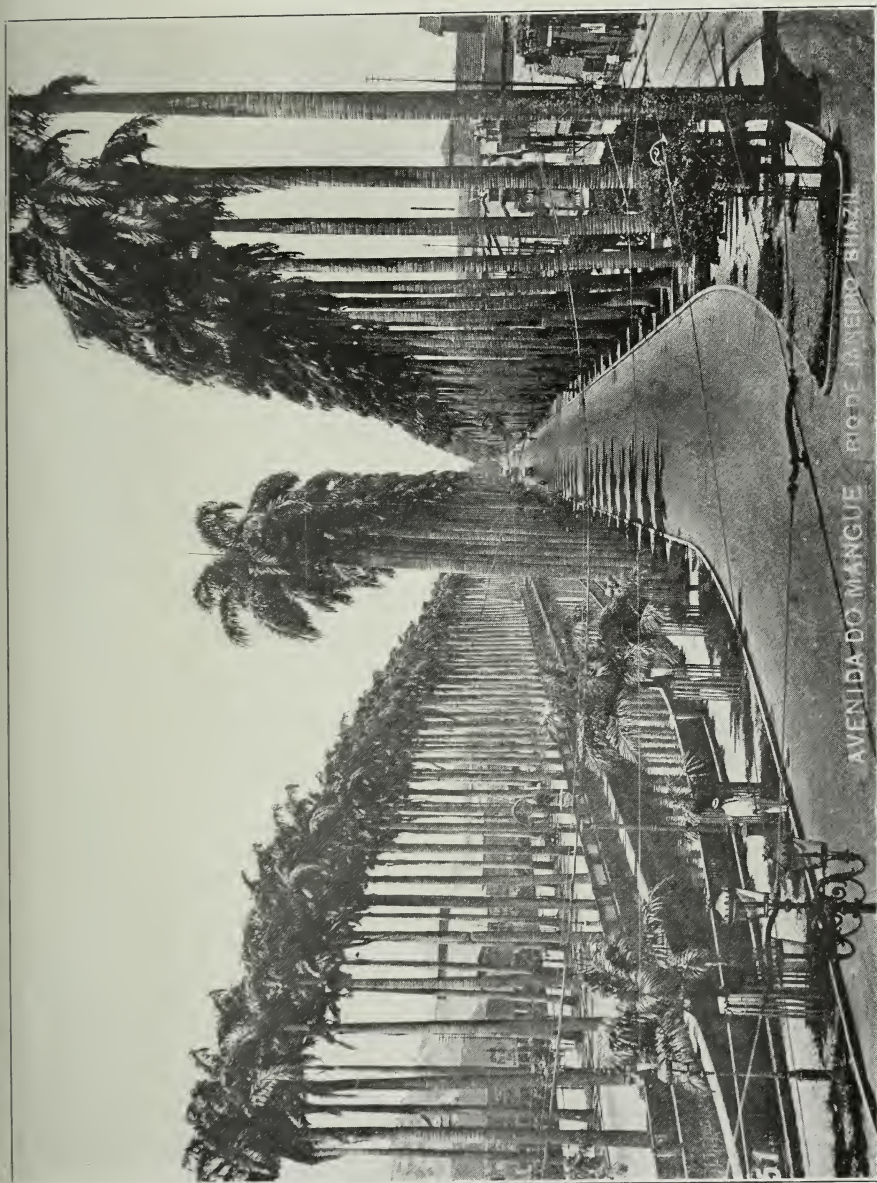
Library. The agricultural library contains 4,000 volumes of technical books on agriculture, vocational education, home economics and all allied subjects. A complete file of all college, experiment station, and United States Department of Agriculture bulletins are catalogued for student instruction and many of these are included as parallel reading in the general courses. During the last year the Encyclopedia Americana of thirty volumes has been added.

About one hundred publications including the leading agricultural journals of this and foreign countries, scientific and trade papers bearing upon agriculture, are placed in the reading room for students. Daily and weekly newspapers of the state are also kept on file. The general library of the University is open to students in agriculture and home economics.

Animal Husbandry. The main agricultural building is a structure of three stories and houses the Executive, Extension, Horticultural, Agronomy, Chemical and Animal Husbandry divisions. All of these are equipped to do college work of the highest rank and grade. The animal husbandry building is only partially completed and will be occupied by the Animal Husbandry Division as soon as sufficient funds are procured from the state with which to complete it.

This division possesses a large livestock building and a model dairy which houses a dairy herd of forty Holsteins, thirty Jerseys and six Guernseys, all registered animals. It has also large herds of Herefords and Shorthorns, both registered and grade animals. The swine herd is being enlarged at the present time and will soon include registered animals of all representative breeds.

A registered Percheron stallion and mares of excellent breeding are kept for student judging and instruction as well as grade Percheron mares and high class mules for work stock.



The Georgia State College of Agriculture always has a number of foreign students. They are especially interested in the growing and breeding of cotton and chemical work in the oil content of the seed. Several students are expected from India, South America and China for the fall term.



The College is growing fast and its class rooms are crowded. This is a section of rehabilitation students. (See page 2).

The cavalry unit of fifty-four horses and six mules provides excellent material for student horse judging.

Agricultural Engineering. In the agricultural engineering building are found the light and the heavy machinery laboratories, materials testing laboratory, wood shop, forge shop, plant pathology laboratory, forestry laboratory, class rooms and offices. To the heavy farm machinery six standard make tractors have just been added and following the laboratory courses a ten-day field school provides the necessary experience in actual plowing of the tractors to develop students into good tractor operators. The army trucks and automobiles of the motor transport corps are available for student instruction also.

Horticulture. The Division of Horticulture has developed thirty-five acres of the College farm into an orchard in which is planted all of the varieties of apples, pears, peaches, plums and other fruits recommended for the section so that students may make a comparative study of their qualities. Student gardens are also provided in addition to a well developed truck garden.

The three greenhouses are divided into seven compartments in order that practical class room work and experimental work may be carried on at the same time. Provisions are made whereby the commercial aspects of greenhouse management may be studied at first hand. The grounds and gardens of the College present practical work in landscape gardening.

Forestry. Under the direction of the Division of Forestry there is maintained a ten-acre arboretum in which is to be found practically all of the trees and shrubs which will grow in this latitude. Among the specimens are many rare exotics.

The nursery serves a double purpose: (1) as a laboratory in seeding, planting and propagation for the students in forestry, and (2) as a source from which residents of the state may obtain shade tree and ornamental stock at cost. In connection with the nursery there is maintained an experimental willow holt for the production of basket willow stock. Willow cuttings are furnished at cost.

Veterinary Medicine. The buildings of the Veterinary Di-

vision consist of the main veterinary building of two stories and basement, a veterinary hospital for clinics, and other small buildings. The division now offers a four-year degree course in veterinary medicine complying with government regulations and additional equipment is being added from time to time. Hog cholera serum is manufactured at the hospital for Georgia and this affords frequent autopsies of hogs in the study of contagious and parasitic diseases.

Chemistry. The chemical laboratories are found in the administration building and are equipped with the necessary apparatus for developing students into practical chemists. A special laboratory is provided for analyzing soil types, and all of the samples collected in the surveys carried on in coöperation with the United States Bureau of Soils are sent in for chemical analyses.

Agronomy. The agronomy laboratories for farm crops, cotton industry, soils, and farm management are also found in the administration building. In addition, there is an experimental field of twenty-four acres for the development of strains of cotton, corn, wheat, oats, barley, rye, and alfalfa best suited to Georgia conditions. The value of crop rotations, the relation of fertilizers and manures to crop production and the influence of the different methods of cultivation may be studied at first hand.

Special plats are set aside for conducting experiments in cotton breeding both by hybridization and selection. A test of all the leading varieties of cotton is carried out every year and special selections made for earliness and other characteristics in the fight against the boll weevil. Fertilizer demonstrations are conducted with cotton in Athens and in twenty-seven other counties of the state.

Poultry. The poultry plant consists of egg-testing rooms, egg-storage rooms, model breeding houses, and a laying house divided into thirteen pens for experimental purposes. The flock contains 700 trapnested, pedigreed breeders representing eight of the varieties of chickens best adapted to the state. There are also several thousand growing stock. In addition to a wide variety of incubators ranging in capacity from 60

to 600 eggs there is a mammoth incubator of 3,000 eggs capacity. Brooders and colony houses suited to Georgia conditions are also included in the equipment.

College Farm. The college farm presents an excellent example of a wornout cotton farm that has been developed by scientific and systematic rotations into a dairy and livestock farm of high productiveness. When the College took charge of the farm the total receipts for the year 1907-08 amounted to \$1,799.37 as compared with \$21,076.47 for the year 1918-19 when only sixteen acres of cotton were grown. The farm is not unlike a vast acreage in Georgia, and it presents an excellent opportunity for study of practical methods of soil building by crop rotation, use of legumes, live stock growing, and terracing.

STUDENT ORGANIZATIONS

The Agricultural Club

The young men of the Georgia State College of Agriculture have an organization known as the "Agricultural Club." It meets once each week and is the most widely attended of any literary club in the University. Debates are held regularly on subjects of popular and scientific interest and papers are delivered on special subjects of importance to the farming interests of Georgia.

The club publishes the "Agricultural Quarterly" for distribution to the students, faculty, alumni, and to farmers and business organizations. All of the contributions to the magazine are furnished by the students and they manage its business affairs under the direction of the faculty. The "Quarterly" furnishes an excellent medium for literary training in writing and editing agricultural material.

The Demosthenian and the Phi Kappa Societies of the University are also open to agricultural students and these offer additional opportunities for literary training. Agricultural students are invited to contribute articles to the "Red and Black," a student weekly paper, and to the "Georgian," a literary magazine.

The Social Club

All of the students of the Georgia State College of Agriculture are banded together into a social club, known as the "Colagris Club," which holds receptions and entertainments. Every class has its special representative on the entertainment committee and the young men and women together with the members of the faculty entertainment committee plan for all kinds of interesting social events in which both the students and faculty take part.

One of the features of the last year's social events was the annual reception of the "Agricultural Club" and another was the "Dramatic Debut of the Co-eds." Entertainments are given every two to three weeks throughout the collegiate year.

FEES AND EXPENSES

The Georgia State College of Agriculture is a state institution and no tuition is charged for students who live in Georgia. Students from without the state are required to pay a tuition fee of \$50.00.

From an examination of the general expenses of a student itemized below it will be seen that a young man may secure an education at the Georgia State College of Agriculture at a considerably lower figure than in most institutions in the country.

The demand for young men trained in agriculture is unlimited and the cost of an education is relatively small. Even if a young man has to borrow money to carry him through school he can easily pay this back within a short time after he leaves college. Practically every man who has graduated from the College is engaged in some kind of agricultural work.

Estimated Expenses

Room rent, \$5.00 per month	\$ 45.00
Table board, \$16.00 per month	144.00
Books	18.50
Laundry, \$2.00 per month	18.00
Infirmary fee, including medical attention	5.00
Gymnasium fee	3.00
Athletic fee and admission to games	10.00
Fee to literary society	2.00

Laboratory fees, approximately -----	20.00
Breakage fees, a part of which may be returned to student_	10.00
Deposit on military uniform, returned if no part of uni form is lost or destroyed -----	10.00
Deposit on dormitory room, to be returned -----	2.50
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Total estimated expenses -----	\$288.00

If a young man joins the Reserve Officers Training Corps he may materially reduce his expenses while in college. One complete set of uniform is issued free to each student in the Reserve Officers Training Corps each year, but it must be returned when the student leaves the institution. When the student has had two years of reputable military training he is entitled to draw commutation of subsistence which amounts to 40 cents a day. Thus it may be seen on page 27 how that the young man who remains in the Reserve Officers Training Corps for four years may receive clothing, subsistence and transportation valued at \$453.14.

Table board may be secured at Denmark Dining Hall for \$16.00 per month, payable in advance. Applications for table board are made upon reaching Athens, no reservations being given in advance. Board on the cafeteria plan may also be secured in the administration building of the Agricultural College.

Students desiring a room in the dormitory should send Mr. T. W. Reed, registrar, a deposit fee of \$2.00 for a reservation. This should be done as early as possible for the dormitories are quickly filled each year.

Furnished rooms in private homes may be secured at from \$7.50 to \$10.00 for each occupant and table board may be secured at from \$25.00 to \$30.00.

A young man should bring at least \$100.00 in New York Exchange or money order with him to pay for books and meet advance payments for room rent, table board, and laboratory fees. Checks are not accepted.

STUDENT LOAN FUNDS

The Charles McDonald Brown Scholarship Fund, the Hull Fund, the Arkwright Fund, the Michael Fund, the Dodd Fund, the Lumpkin Fund, and several other funds are for the purpose of assisting worthy students in paying their way through college. The interest from these funds is loaned to a young man on the condition that he obligate himself to return the money with four per cent interest as soon after leaving college as he can conveniently do so.

An application for a loan should be made to Chancellor David C. Barrow. A special circular of information concerning the fund and blank forms of application will be supplied on request. These funds are making it possible for many young men of limited means to secure an education.

SCHOLARSHIPS

The Georgia Bankers' Association has established a student loan fund. Eight loans to the value of \$600 were made in the collegiate year 1917-1918, the condition imposed being that the young men receiving the benefits of this fund shall undertake the repayment of the same with interest at four per cent one year after graduation.

The Southern Railway Company has donated the sum of \$1,000 to be known as the Southern Railway Loan Fund: William Wilson Finley Foundation in the Georgia State College of Agriculture. This fund is to be administered on the principle of the Brown fund and the Georgia Bankers' Association fund. Naturally, only one appointment can be made under this foundation for the college year 1920-1921. The only restriction placed upon this fund is that students benefiting by it live in counties traversed by the Southern Railway, Augusta Southern, Tallulah Falls Railway, Georgia Southern and Florida Railway, Macon and Birmingham Railway, or Hawkinsville and Florida Southern Railway.

One scholarship valued at \$250.00 is given by H. G. Hastings & Co., Atlanta, Ga., to the boy making the best record in the corn club work for the whole state.

One hundred and sixty scholarships valued at \$25 each to the corn club boys' short course to be held in August, 1920.

One hundred and twenty-five scholarships valued at \$25 each to the canning club girls' short course to be held in August, 1920.

These short course scholarships have been given by the Georgia Bankers' Association, the State Fair, the Southeastern Fair, by various railroads, boards of trade, chambers of commerce, women's clubs, business men, and many other patriotic citizens.

List of Prizes, 1919-1920

Graduate Scholarship—\$100 in gold will be given by the Soil Improvement Committee of the Southern Fertilizer Association to the member of the senior class making the best record for the senior year, on condition that he make application for one of the regular graduate courses.

Junior Scholarship—\$75 in gold given by the Virginia-Carolina Company to the student showing the greatest proficiency in all agricultural subjects for the college year 1919-1920.

Sophomore Scholarship—\$60 in gold given by the Virginia-Carolina Chemical Company to the student showing the greatest proficiency in all agricultural subjects for the college year 1919-1920.

Freshman Scholarship—\$40 in gold given by the Virginia-Carolina Chemical Company to the student showing the greatest proficiency in all agricultural subjects for the college year 1919-1920.

One-Year Course—\$25 in gold given by the Virginia-Carolina Chemical Company to the student showing the greatest proficiency in all agricultural subjects for the college year 1919-1920.

Trustees' Prize—\$25 in gold from the Board of Trustees to the student writing the best essay on "The Effect of the Federal Appropriation for Vocational Education on Southern Agriculture."

A gold medal given by The Barrett Company to the student writing the best essay on "Sulphate of Ammonia as a Nitro-

genous Fertilizer in Mixed Fertilizers, and as a Top Dressing."

\$25 in gold given by the Cotton Seed Crushers' Association of Georgia to the student writing the best essay on "The History of the Development of the Cottonseed Industry."

\$10 in gold given by H. G. Hastings & Company to the student writing the best essay on "The Importance of the Home Garden."

\$10 in gold given by H. G. Hastings & Company to the student writing the best essay on "The Influence of the Early Velvet Beans on Soil Fertility."

\$10 in gold given by H. G. Hastings & Company to the student writing the best essay on "Increasing the Yield of Small Grain by Seed Selection."

\$25 in gold given by the American Shorthorn Breeders' Association to the student writing the best essay on "The Adaptation of the Shorthorn to Average Farm Conditions."

MILITARY SCIENCE AND TACTICS

H. M. OFFLEY, Captain, Cavalry, Professor.

C. A. McGARRIGLE, Captain, Infantry, Assistant Professor.

C. W. JACOBSON, First Lieutenant, Cavalry, Assistant Professor.

Reserve Officers Training Corps

Establishment. Under the provisions of Special Regulations No. 44, War Department, Washington, August 19, 1919, units of Infantry, Cavalry and Motor Training Corps of the Senior Division, Reserve Officers Training Corps, are established at the University of Georgia, and all students are allowed full privileges of the organization.

Land Grant. Under the provisions of the Land Grant Act, attendance upon military exercises is compulsory for all students except Graduates, Seniors and those in Law and Pharmacy Departments.

Object. The primary object of the Reserve Officers Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States. It is intended to attain this ob-

ject during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens as well as providing a large number of educated men physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the armies upon which the safety of the country will depend.

Courses. The course in the Reserve Officers Training Corps is divided into two periods. The first period, the Basic Course will consist of the first two years in the military department, usually the Freshman and Sophomore years, with a period at a summer camp, the Basic Camp, held normally at the termination of the first year. Attendance at the Basic Camp is voluntary on the part of the student. The second period, the Advanced Course, will consist of the last two years in the military department, usually the Junior and Senior years, with a period at a summer camp, the Advanced Camp, held usually at the termination of the third or Junior year. Attendance at the Advanced Camp is compulsory for those students who receive commutation of subsistence as hereinafter described. In the case of either camp, the student receives from the government, transportation to and from the camp, and quarters, food, uniforms, equipment, medical attention and other necessities while thereat.

Commutation of Subsistence. When any member of the Reserve Officers Training Corps has completed two academic years of service in the Senior Division, or has taken a course in a Junior Division substantially equivalent to the Basis Course of the Senior Division, and has been selected by the Chancellor of the University and the Professor of Military Science and Tactics as qualified for further training, he may be admitted to the Advanced Course of the Senior Division. Any member of the Senior Division who has been admitted to the Advanced Course and who executes the following written agreement, will be entitled, except while at the summer camp

where he will be furnished subsistence in kind, to the commutation of subsistence fixed by the Secretary of War in accordance with law :

-----19-----

In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers Training Corps during the remainder of my course in the University of Georgia (not to exceed two years), to devote five hours per week during such period to the military training prescribed, and to pursue the course of camp training during such period, prescribed by the Secretary of War.

Witness:-----

The rate of commutation of subsistence is fixed from time to time by the Secretary of War and is based on the cost of the garrison ration of the army. The present rate is forty cents per day. This commutation is payable for not to exceed two years, including the summer vacation period but excepting the time while at summer camp which is of about six weeks duration.

Uniform. The uniform of the Reserve Officers Training Corps is that of the United States Army with the addition of a distinctive sleeve insignia. One complete set of uniform is issued free of charge to each student in the R. O. T. C. each year. This clothing remains the property of the United States and must be returned to the Supply Officer of the Military Department when a student leaves the institution. In addition, each student attending camp is issued a set of summer uniform.

The following summary shows the minimum total amounts received by a student in four years at the University if he remains in the R. O. T. C. for that length of time.

Uniform at the institution, 4 years @ \$26.80-----\$107.20
Uniform at camp, (if he attends two camps), 2 @ \$18.75 36.34

Commutation of subsistence, (to those recommended in the advanced course), 590 days @ \$0.40-----	236.00
Subsistence in kind at camps (if he attends two camps), 84 days @ \$0.40 -----	33.60
Transportation, averaging 1,000 miles, in two summers to and from camps, 1,000 miles @ \$0.4 -----	40.00
<hr/>	
Total -----	\$453.14
Average per year-----	113.28

Equipment. In addition to the clothing mentioned above, a complete set of arms and equipment is issued to each student in the Military Department. The University is accountable to the Federal Government for the clothing and equipment issued to the students. Each student registering in the Military Department is required to deposit \$10.00 with the Registrar. Upon leaving the University this deposit will be returned to the student after deducting therefrom the cost of any clothing or equipment lost.

Courses of Instruction

For Units of All Arms. Organization; military courtesy and discipline; drill, close and extended order; care and use of arms and equipment; target practice; personal hygiene, first aid and sanitation; guard duty; minor tactics; morale; physical training; topography; field engineering; administration; military law; military policy of the United States.

Infantry Special. Bayonet and hand grenades; automatic rifles; machine guns; trench mortars; one pounder gun; ceremonies; marching; tactical walks; map problems.

Cavalry Special. Selection and care of animals; hippology; feeding and grooming; care and treatment of minor injuries and ailments; shoeing; equitation; packing; pistol practice; sabre practice; development and employment of Cavalry; Cavalry minor tactics.

Motor Transport Special. Elementary motor vehicle engineering; mechanism and operation of the various parts of a motor vehicle; convoy problems; economics of motor transportation; transportation surveys; advanced motor vehicle engin-

eering and motor vehicle design; maintenance; lessons from the World War.

Summary

In addition to the advantages offered by military training from the point of view of physical development and the inculcation of habits of neatness, orderliness, promptness, courtesy and respect for legally constituted authority, the R. O. T. C. course offers opportunities for certain special technical training in various fields without any tuition charges, and finally an opportunity to obtain a commission in the Officers' Reserve Corps of the United States Army.

TERMS OF ADMISSION

Bachelor of Science in Agriculture

An applicant for the degree of B.S.A. must be sixteen years of age and must present on entrance 15 units, as specified below. No conditions are allowed. The course requires two years of actual farm experience prior to graduation.

Bachelor of Science in Forestry

Forestry students must be sixteen years of age on entrance and must present 15 entrance units, as specified below. Attendance upon a summer forest camp is considered a part of the course.

Doctor of Veterinary Medicine

An applicant for the degree of D.V.M. must be seventeen years of age and must present upon entrance 15 units, as specified below. No farm experience is required.

Bachelor of Science in Home Economics

An applicant for the B.S.H.E. degree enters the junior class. Sufficient maturity and ability to do the required work must be shown. Graduation from a junior college or from an institution of similar rank is required for entrance. An applicant must present 15 units, as specified below, and two years of standard college work. The two years of standard college work must include 6 hours of English, 3 hours of chemistry, 3 hours of physics, 6 hours of home economics, 3 hours of edu-

cational psychology, 2 hours of elementary drawing and design, 3 hours of biology (1½ hours of which must be physiology), and 10 hours of electives—a total of 36 credit hours. A student presenting 30 hours of college work may receive junior rating and is permitted to carry junior subjects for which she can offer prerequisites.

Master of Science

An applicant for the degree of M.S. must show sufficient maturity and ability to do the required work. A reputable baccalaureate degree is required.

One-Year Course in Agriculture

An applicant for the one-year course in agriculture must be eighteen years of age and must have had some farm experience prior to application for entrance. The purpose of this course is to provide suitable instruction for those who can remain in college for only one year.

Special Students

Students of mature years, not candidates for a degree, but with a definite aim or for purposes of general culture often desire to take a course in the Georgia State College of Agriculture without meeting the full entrance requirements. Such special students may be admitted under the following conditions: (a) they must be not less than twenty years of age; (b) they must give evidence of adequate preparation for the courses sought, to the individual professors in charge; (c) their names are printed separately in the catalogue. Students not less than eighteen years of age may be accepted as special students in the School of Forestry, upon the recommendation of the professor in charge.

An application for admission as a special student should be addressed to the Entrance Committee. It should state (1) the applicant's age, (2) his preparation, (3) a brief outline of the course or courses he wishes to pursue, (4) and the consent of the departments in which he wishes to register.

Should a student admitted as a special student become a candidate for a degree, he will be required to satisfy the full fifteen units of entrance requirements.

Entrance Units

Fifteen units are now required for admission to any of the four-year degree courses. The requirement has been fourteen units in the past but has been raised to fifteen in order that a higher standard of college work may be attained. Entrance units are accepted from accredited schools only. Entrance examinations will be held in Athens and throughout the state in June and September.

Units. A unit represents a year's study in any subject in a secondary school, constituting approximately a **quarter** of a full year's work. This statement is designed to afford a standard of measurement for work done in secondary schools. It takes the four-year high school course as a basis and assumes that the length of the school year will be approximately thirty-six weeks, that a period is at least forty minutes, and that the study is pursued for four or five periods a week; but, under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty sixty-minute hours, or their equivalent.

Schools organized on a different basis can, nevertheless, estimate their work in terms of this unit. Less than forty minutes for recitations will reduce the unit value. The subject may cover more than one year according to the pleasure of the teacher in arranging courses. The time element counts on the certificate as well as the quantity of work. As a general rule, four units a year is as much as the average pupil can prepare adequately. Two hours in manual training or other laboratory or industrial work are equivalent to one hour in the class room.

Units Required. The following units are required for entrance for all men and women entering the degree courses:

Required Units

ENGLISH	-----	3	units
Rhetoric and composition	-----	1	unit
Books for careful study	-----	1	unit
Books for general reading	-----	1	unit
MATHEMATICS	-----	2 ½	units
Algebra to quadratics	-----	1	unit
Plane Geometry	-----	1	unit

Algebra (quadratics and beyond) -----	$\frac{1}{2}$ or 1 unit	
Solid Geometry -----	$\frac{1}{2}$ unit	
Plane Trigonometry -----	$\frac{1}{2}$ unit	
HISTORY -----	2	units
Ancient History -----	1 unit	
European History -----	1 unit	
English History -----	1 unit	
American History and Civil Government-----	1 unit	
General History (not in addition to medieval and modern history) -----	1 unit	

Elective Units. Seven and one-half units from the following subjects may be offered to make a total of 15 required units. Each subject named below is valued at a specific number of units if the proper time has been devoted to its preparation, but its value cannot rise above that number of units although additional time may have been given to it.

Elective Units

	Units		Units
Latin - - - - -	1, 2, 3, or 4	Physiology, or Zoöology, or	
Greek - - - - -	1, 2 or 3	Botany (any two) - - - -	1
German - - - - -	1 or 2	Biology - - - - -	1
French - - - - -	1 or 2	Free-hand Drawing - - - -	1
Spanish - - - - -	1 or 2	Manual Training - - - - -	1
General Science - - - - -	1	Commercial Subjects - - - -	1
Physics - - - - -	$\frac{1}{2}$ or 1	Agriculture - - - - -	3
Chemistry - - - - -	1	General Agriculture - - - -	1
Physical Geography - -	$\frac{1}{2}$ or 1	Agronomy - - - - -	1
Zoölogy - - - - -	$\frac{1}{2}$ or 1	Horticulture - - - - -	1
Botany - - - - -	$\frac{1}{2}$ or 1	Animal Husbandry - - - -	1
Physical Geography - -	$\frac{1}{2}$ or 1		

BACHELOR OF SCIENCE IN AGRICULTURE

Introduction

The four-year Bachelor of Science course provides for a liberal and thorough training along scientific lines in agronomy, soil fertility, animal husbandry, veterinary medicine, dairy husbandry, horticulture, forestry, agricultural engineering, cotton industry, agricultural chemistry, poultry husbandry, plant pathology and agricultural education. The course is practical.

General training in chemistry, physics, botany, biology, English and mathematics is also provided. Since the field of agricultural education is so broad that it is quite impossible for a student to pursue all the courses offered in four years, certain fundamental studies are prescribed, and the largest liberty of selection commensurate with the best interests of the student, is permitted. In this way the student is enabled to select a course which is in keeping with his taste, and at the same time obtain sufficient special training to fit him for the kind of work he desires to pursue after graduating.

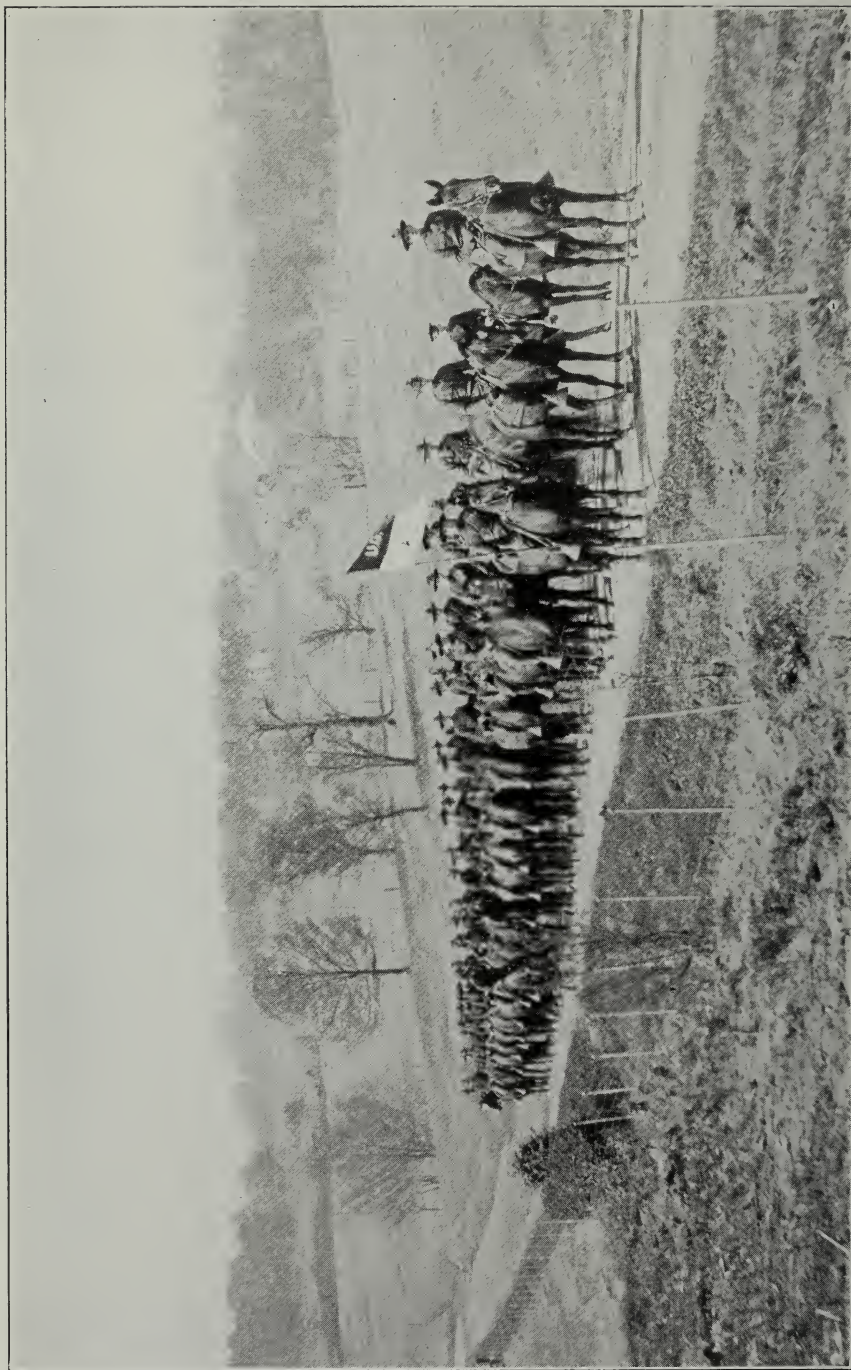
Outline of Course

Freshman		Sophomore	
	Hrs.		Hrs.
Farm Crops - - - - -	2	Animal Husb. 2, 3, 4 and 5 -	3
Animal Husbandry 1 - - - -	1	Botany - - - - -	3
Agr. Eng. 1, 2, 3, 4, 5 - - - -	3	Agr. Chemistry 2b - - - - -	3
Horticulture 1, 2 and 3 - - - -	3	Rural Economics - - - - -	3
Poultry Husbandry - - - - -	1	English 2 - - - - -	3
English 1 - - - - -	3	Physics 2 - - - - -	3
Chemistry 1 - - - - -	3	Agronomy 5, 6 - - - - -	3
Mathematics 1 and 2 - - - - -	3		
Military Science - - - - -	1		
	<hr/>		<hr/>
	20		21

The division of the time in the junior and senior years shall be as follows:



The Motor Transport Corps is ready for inspection before beginning a convoy trip. These men are going to Camp Holabird, Maryland, this summer for a six weeks camp and at the expense of the War Department. (See page 24).



The Cavalry Unit is returning from a hike and the mounts are the very best horses, selected from the entire command at Camp Lee, Va. The men in the unit go to Fort Oglethorpe, Ga., this summer for a six weeks camp and Uncle Sam pays the bills. Upon graduation from the Senior R. O. T. C. they may go into the Army for one year as Second Lieutenants.

	Hrs.
*Major - - - - -	12
Minor, group 1 - - - - -	6
Minor, group 2 - - - - -	6
Gen. Elective - - - - -	12
	<hr/>
	36

Total requirements for a degree, exclusive of military science, but including laboratories, will be †76 hours. Not more than 21 hours can be taken from any one department in the junior and senior years. Major courses may be selected from the departments of agronomy, animal husbandry, horticulture, agricultural chemistry, agricultural engineering, agricultural education, and plant pathology.

Elective Courses. It is urged that the student give particular attention to his elective courses, selecting those courses that give the broadest training commensurate with special work in a department.

Group 1 (6 hours required)

Agricultural Chemistry	Physics
Botany	Mathematics
Zoölogy	

(Note:—Bacteriology, Entomology and Plant Pathology are placed in Group 1 for those majoring in agricultural education).

Group 2 (6 hours required)

Animal Husbandry 6, 7	Entomology
Agronomy 3	Forestry
Veterinary Science	Geology
Agr. Engineering 6, 7, 8, 9	Horticulture 10
Bacteriology 1, 2	Poultry Husbandry

Not later than the beginning of the junior year the student must submit a program written on a prescribed form for the schedule of work in the junior and senior years, showing his majors and minors, as well as his general electives. This pro-

*In the Division of Agricultural Education only nine hours of work is required. The other hours can be selected from the other divisions in the College on the approval of the head of Agricultural Education.

† The student who satisfactorily completes all the military training offered receives a three-hour credit, which he may count as a general elective toward his degree.

gram must be approved by the head of the department in which he takes his major.

Laboratory Periods. In the College of Agriculture two laboratory hours count as one hour of recitation, and are included on that basis in the number of hours required.

Summer Work. Conditions now exist which will permit any course offered in the regular college curriculum to be given during the summer, provided a sufficient number of students, not less than five, apply for the course. It is left to the discretion of the professor in charge whether the course will be given to three students or not. Present arrangements will permit young men to graduate in less than four years, provided a sufficient number of them decide to make the necessary arrangements for summer work.

AGRICULTURAL CHEMISTRY

W. A. WORSHAM, Jr., Professor.

L. M. CARTER, Associate Professor of Soil Chemistry.

D. D. LONG, Soil Expert in State Survey.

M. W. LOWRY, Associate Professor of Soil Chemistry.

W. O. COLLINS, Associate Professor of Agricultural Chemistry.

C.N. WILDER, Adjunct Professor of Agricultural Chemistry.

1. Organic Chemistry. This course consists of the study of the classification and relation of the carbon compounds, and the preparation of the simpler and more important ones. Stress will be laid on those compounds relating more directly to agriculture, such as carbohydrates, proteins, and fats. The physiological chemistry of plants and animals will be studied dealing mainly with the general subjects of food and nutrition as applied to both animals and plants and photosynthesis in plants.

The animal fluids, milk, blood and urine will be studied in detail. Consideration will be given to the chemical composition, digestibility, and nutritive value of the more common classes of foods; adulterants and the methods of their detection. Analyses of milk, butter, and some cereal food product will be made.

Students taking this course must have had Inorganic Chemistry 1 or 2 including work in laboratory. "Organic Agricultural Chemistry," by Chamberlain will be used as a text. Two hours of lectures and one laboratory period per week for three terms. Optional for juniors and seniors. Required of Forestry and Veterinary students during sophomore year. Fee, \$7.50. *Professor Worsham.*

2b. Qualitative Analysis. In this course a study is made of the characteristic properties and reactions of the common metals and

acid radicals. The principles involved in the separation of the groups and the individual metals of the respective groups are studied in the laboratory. By systematic work with known substances and then with unknown substances the student will be able to familiarize himself with processes employed in qualitative analysis. The course is planned to enable the student to determine the composition of ordinary substances especially those that are of most importance in agriculture. One lecture and two laboratory periods during the sophomore year. Fee, \$7.50. *Professor Worsham.*

3. Quantitative Analysis. The object of this course is to prepare the student for special work in agricultural chemistry as well as to teach the method of quantitative analysis.

The methods of both gravimetric and volumetric analysis will be treated in lectures and the practice carried out in the laboratory. Substances of known percentage composition will first be analyzed and then substances of unknown composition, including the simpler agricultural products. Texts: "Elementary Quantitative Chemical Analysis," Lincoln and Walton. Reference books, "Quantitative Analysis," by Treadwell, Olsen and Fransenius. Two lectures and recitations and four laboratory periods for three terms.

3b. Same as Course "3," except that students not specializing in chemistry, have one hour of lectures and recitations and two laboratory periods. Optional for juniors and seniors. Fee, \$7.50. *Professor Worsham.*

4. Advanced Quantitative Analysis. The basis of the work in this course will be the study of the methods employed in soil investigations, the analysis of soils, fertilizers, feeds, water, etc. Some latitude is allowed the student as to the substances to be analyzed. Students taking this course must have had Agricultural Chemistry "3." Work for laboratory will be outlined and standard references given.

Two hours of lectures and recitations and four laboratory periods for three terms during senior year.

4b. Same as Course "4," except that students not specializing in chemistry have one hour of lectures and recitations and two laboratory periods. Optional for seniors. Fee, \$7.50. *Professor Worsham.*

5. Chemistry of Forest Byproducts. This course consists of the detailed study of the chemical byproducts of the forest, destructive and steam distillation, the mechanical and chemical processes of paper manufacture from wood, the production of turpentine and rosin, the production of wood alcohol, acetic acid, creosote, and the possibility of further utilization of sawmill waste. Three credits. Required of forestry students. Fee, \$7.50. *Professor Worsham.*

A deposit of \$5 will be required for each laboratory course to cover breakage of apparatus and chemicals used. If any of this amount is left it will be returned to the student at the end of the year.

AGRICULTURAL EDUCATION

JOHN T. WHEELER, Professor.

CORNELIUS J. HEATWOLE, Professor.

WILLIAM E. GARNETT, Associate Professor.

LAFAYETTE M. SHEFFER, Associate Professor.

CURRY L. VEATCH, Associate Professor.

10. Introduction of Vocational Education. This course treats of educational aims and values; some means of measuring education values; present-day educational problems; the theory and practice of vocational education; educational needs of the several groups of society, the school and other agencies for meeting these needs, vocational training under school conditions; relations of these topics to agricultural teaching and to rural life will be emphasized. Three hours per week, third term, one hour credit. Junior or senior year. *Professor Wheeler.*

11. Agricultural Education Administration. This course deals with the development of agricultural education in the United States; the influence of agricultural societies on improving agricultural practices; federal and state policies to encourage rural and agricultural education; the work of the agricultural colleges, experiment stations, United States Department of Agriculture, and extension service; the place of secondary agriculture in a system of education with special reference to the National Vocational Educational Act. Three hours per week, third term, one hour credit, junior or senior year. *Professor Wheeler.*

12. Educational Psychology. This course is a study of mental processes with their application to education and teaching. The following topics will be treated: The nature and meaning of consciousness and its relation to conduct; the main facts relating to the structure of the nervous system so as to determine the relation of the body and mind; the characteristics of the learning process, such as original nature, capacities, instinctive tendencies, habit, attention, memory, imagination, thinking and feeling, transfer of training; the peculiar characteristics of the adolescent life; individual differences, mental tests and scientific measurements. Three hours per week, first term. (Students may enter at beginning of first and third terms*). One hour credit, junior or senior year. *Professor Heatwole.*

13. Principles of Teaching. The application of the principles of education to the practice of teaching; the function of the teacher in the learning process; function of subject matter; the problem as a factor in the teaching process; attention, basis and utilization of interest; concrete basis for teaching; methods, lecture, text-book,

* For students entering at beginning of third term, the second term's work will be provided in Summer Session.

development, recitation, art of questioning, arguments; tests of methods, testing results. Prerequisite course 12, three hours per week, second term, one hour credit, junior or senior year. *Professor Heatwole.*

14. Methods and Materials in Vocational Agriculture. Topics considered: Purpose of secondary vocational agriculture; the organization of the high school for teaching vocational agriculture, the curriculum, course of study, text-books, equipment, the project, extension activities, organization of subject matter, planning and presentation of laboratory and class exercises, preparation of illustrative materials; observational work. Seniors with requisite farm experience. Prerequisite courses 10, 12, and 13, two lectures and one laboratory a week, first two terms. (Students may enter at opening of first and third terms*). Two hours credit, senior year. *Professor Wheeler.*

15. Supervised Teaching. Arrangements will be made for all students majoring in this division to do supervised teaching in agriculture in nearby high schools under the direction of the division. Prerequisite course 14 (may parallel course 14), hours to be arranged, offered each term, credits one to three hours. *Associate Professors Veatch and Sheffer.*

16. Research Problems. This course considers further the problem arising in connection with courses 11 and 14. Special reading problems will be assigned for investigation and thesis required. Prerequisite, courses 11 and 14, two hours through the year, two hours credit, senior year. *Professor Wheeler, Associate Professor Garnett, and Associate Professor Sheffer.*

17. Rural Journalism. A course planned for students of vocational agriculture and required of those taking senior work. The course includes a study of rural publicity, report writing, press work on projects, and special work in the compilation and arrangement of statistical data. Two lectures and one laboratory period, third term, one hour credit. *Mr. Maddux.*

18. Rural Community Problems. Analysis of the factors, forces and agencies molding the country dweller and the rural community together with their inter-relationship and social implications. Constructive plans for the most efficient organization of rural institutions and community life will be worked out. Special attention will be given to Georgia conditions and problems. Two lectures and one laboratory period, two terms. (Students may enter at beginning of first and third terms*). Two hours credit, senior year. *Associate Professor Garnett.*

19a. Agricultural Economics. General principles of economics

* For students entering at beginning of third term, the second term's work will be provided in Summer Session.

and their application to rural affairs; economic movements in country life; agricultural wealth, etc., production, distribution and consumption; state studies; land problems; tenancy; labor problems; rural finance; coöperative organizations; market problems; rural laws; influence of governmental policies on agricultural prosperity and education, influence of social factors on economic conditions and vice versa. Three hours per week, through the year, three hours credit, sophomore or junior. *Associate Professor Garnett.*

AGRICULTURAL ENGINEERING

GEORGE A. FAIN, Professor.

W. A. CLEGG, Associate Professor.

GUY R. JONES, Field Agent in Agricultural Engineering.

W. E. BROACH, Field Agent in Agricultural Engineering.

1. ***Shop Work (a). Wood Work.** This course is designed for the instruction of the student in the use, care and sharpening of all wood-working tools. A carefully planned series of exercises are offered. These exercises bring into use, all tools that will be helpful to the student in after life. An advanced course in wood work planned for students having had the preliminary work, will be given. This course will consist of the design and building of furniture and other articles for the home. (b) **Forge Work.** This work is designed to familiarize the student with the building and care of coal fires, the manufacture of iron and steel, and to familiarize him with the working and handling of iron and steel. Tool-making and tempering will be given. Required of freshmen. One hour credit. *Associate Professor Clegg.*

2. ***Drawing.** Sufficient time will be devoted to free-hand drawing to enable the student to execute readily the necessary drawings in the various laboratory courses. Instrumental drawing will then be taken up so that the student may become familiar with the use of the instruments and be able to execute rapidly and neatly, any drawing of this kind that will be required. Freshman year. *Associate Professor Clegg.*

2A. **Forest Drawing.** Special drill in drawing topographical maps, using all topographical signs employed in topographical survey. This course is for forestry students, but may be elected by advanced students. Prerequisite, Agricultural Engineering "2." *Professor Fain.*

3. ***Farm Machinery Judging.** A study will be made of the construction and use of the various farm machines, such as are used for preparing, planting, cultivating, harvesting, storing and for home and miscellaneous machinery. Each group will be taken up

* Courses 1, 2, 3, 4 and 5, each one hour credit. Laboratory fee, \$3.50.

separately, studied and judged. Required of freshmen. *Associate Professor Clegg.*

4. ***Farm Motors.** Considerable time will be given to study and operation of the gasoline engine, the steam engine and the electric motor. This course is taken up in connection with Agricultural Engineering "3." Required of freshmen. *Associate Professor Clegg.*

5. ***Farm Surveying.** This work will consist of the study and the use of farm levels, compass, and plane table, in terracing and leveling and the survey of farm lands, and also their use in road building. Each student will be required to make a thorough map of a plot of ground and compute its area. Course "2" prerequisite. Required of freshmen. *Associate Professor Clegg.*

5a. **Forest Surveying.** An advanced course is offered in the use of the compass, level, plane table and transit, with special attention to the different uses of these instruments in topographic and reconnaissance work. The work will consist of a hasty survey of a plot of ground. Then a more careful survey will be made as a check upon the first to illustrate the difference in accuracy. This will enable the student to determine the method to be used on all future work. Work required in the sophomore year for all forest students, but may be elected by other students who have had Agricultural Engineering "2A" and "5," or their equivalent. Two hours credit. One lecture, and two laboratory periods. Fee, \$3.00. *Professor Fain.*

6. **Fencing.** This will include a study of the strength and adaptability of various materials for fence construction. The principles of gate construction, and bracing at the corners and at sufficient points according to the condition of the ground. One lecture, two laboratory periods given in connection with 7. Junior. *Professor Fain.*

7. **Farm Buildings.** This course consists of the study and design of farm buildings, starting with the simple and gradually working up to the most complicated. Plans are drawn and from these, the bill of material and an estimate of the cost of the completed structure are made. Attention is given to farm conveniences and sanitation. Considerable time will be spent in studying problems of lighting, heating, water supply and sewerage disposal for the farm home. Agricultural Engineering "2," or its equivalent, are prerequisite to this course. Fall and winter term. One lecture and two laboratory periods. Fee, \$2.00, 6 and 7, two hour credit. Juniors. *Professor Fain.*

* Courses 1, 2, 3, 4 and 5, each one hour credit. Laboratory fee, \$3.50.

8. ***Concrete Construction.** A study will be made of the principles of concrete construction, also the material, forms, mixing, placing and tamping. Their application to farm and forest conditions and the various uses to which concrete has been put in late years are pointed out. Special attention is given to its use for residences, barns and its application in forestry. The construction of fence posts from concrete is taken up. Optional for seniors. Agricultural Engineering "2," "6," and "7" prerequisite, or their equivalent. One lecture, two laboratory periods. *Professor Fain.*

8A. **Concrete Testing.** An advanced course in the testing of cements and concretes under different conditions, shapes, aggregates and reinforcing is given. One lecture and two laboratory periods. Three hours credit. *Professor Fain.*

9. ***Road Building.** Practice work is given in locating roads at the most desirable grades with special attention to drainage. Considerable time will be devoted to road materials, and making tests of the various kinds. Optional for seniors. Agricultural Engineering "5," prerequisite to this course. One lecture, two laboratory periods. *Professor Fain.*

10. **Farm Buildings.** An advanced course in the design, location and construction of all farm buildings. The stress in different members of a design are carefully figured. Models are built and tested to verify the results obtained. Government bulletins and parallel reading, "Farm Buildings," Sanders Publishing Company. One lecture and two laboratory periods a week throughout the year. Three hours credit. Fee, \$3.50. *Professor Fain.*

11. **Farm Machinery.** An advanced course in the elements of machinery. The measurement and transmission of power. The development, use, construction and repair of all farm machinery. Text, "Farm Machinery and Farm Motors," parallel reading, prerequisite, Farm Machinery "3." *Associate Professor Clegg.*

12. **Farm Motors.** The sources of power for agricultural purposes. Tread and sweep powers. Steam, gasoline, air and oil engines and tractors, windmills and electric motors, as far as applicable to agricultural purposes. Texts, "Power and the Plow," "Gasoline Engine on the Farm." Parallel reading. Prerequisite, Agricultural Engineering "4," "11," and "12" constitute a year's work. One lecture and two laboratory periods throughout the year. Three hours credit. Fee, \$3.50. *Associate Professor Clegg.*

14. **Farm Sanitation.** An advanced course in the lighting, heating, ventilating, plumbing and drainage of farm buildings, also in methods employed for sewage disposals. Text, "Mechanics of the Household," by Keene. Parallel readings, Government bulletins.

* Courses "8" and "9" will constitute first half of a year's work. One and one-half hours credit.

Prerequisite, Agricultural Engineering "7." One lecture and two laboratory periods second half of the year. One and one-half hours credit. *Professor Fain.*

15. Drainage and Irrigation Engineering. Drainage of farm lands, both by the open ditch and tile drainage. Methods used in making the preliminary surveys and estimates. The finished survey and report. Drainage laws and assessments. Irrigation methods in use. The application and measurement of water. Texts, "Irrigation and Drainage," King; "Practical Farm Drainage," and "Engineering for Land Drainage," by Elliott. Government bulletins and parallel reading. Prerequisite, Agricultural Engineering "5." One lecture and two laboratory periods second half year. One and one-half hours credit. First half. Fee for "14" and "15," \$3.50. *Professor Fain.*

16. *Road Building. A continuation of Agricultural Engineering "9." The economic value of good roads is taken up in connection with a more detailed study of the problem. The location, drainage, road material, construction and road machinery are studied. Highway bridges and culverts are taken up. Text, "American Highways," Shaler. Government bulletins and parallel reading. Prerequisite, Agricultural Engineering "5," and "9." One lecture and two laboratory periods half the year. One and one-half hours credit. *Professor Fain.*

17. Agricultural Surveying. An advanced course in use of the usual surveying instruments, with especial attention to detail and accuracy. Text, Pence and Ketchum's "Surveying Manual," and "Land Surveying," Hodgman. Prerequisite, Agricultural Engineering "5." One lecture and two laboratory periods throughout the year. Three hours credit. Fee, \$3.50. *Professor Fain.*

18. Home Designing. This course is offered for the students who specialize in Home Economics, and takes up the designing of homes. Some of the topics considered are: location with reference to sanitary, convenient, and attractive surroundings; planning for comfort, convenience, and beauty at reasonable cost. Junior winter term. Three laboratory periods. Credit, one hour. Fee, \$1.00. *Professor Fain.*

19. Home Equipment. This course is supplemental to No. 18, and takes up home conveniences, water supply, sewerage disposal, lighting, heating and ventilation. Winter term. One hour credit. Fee, \$1.00. Senior. *Professor Fain.*

* "8," "9," and "16" constitute a year's work. Fee, \$3.50.

AGRONOMY

JOHN R. FAIN, Professor.

G. A. CRABB, Associate Professor.

R. R. CHILDS, Associate Professor.

PAUL TABOR, Field Crop Specialist.

E. C. WESTBROOK, Tobacco Specialist.

FRANK WARD, Cotton Specialist.

J. V. PHILLIPS, Senior Drainage Engineer.

De F. HUNGERFORD, Farm Management Specialist.

L. V. DAVIS, Supervisor of Fertilizer Investigations.

E. D. ALEXANDER, Associate Professor.

— — — — —, Farm Management Specialist.

— — — — —, Adjunct Professor of Farm Crops.

P. O. VANATTER, Superintendent of Field Work.

H. C. LYON, Student Assistant.

FARM CROPS

1. **General Field Crops.** A study is made of the crops especially adapted to southern conditions, such as cotton, corn, sugar cane and cereals. The general farm practice in the production of these crops is given especial consideration. Text, "Field Crops for the Cotton Belt," by Morgan. First and second terms, freshman. Credit two hours. Laboratory fee, \$3.50. *Associate Professor Childs.*

2. **Grasses and Forage Crops.** A general study of grasses and forage crops of this country is made. Especial attention is paid to those grasses and forage crops that are adapted to southern conditions. Silage and grazing crops are emphasized especially as meeting southern requirements. Prerequisites are Farm Crops 1 and Botany 1. Text, "Forage Plants and Their Culture," by Piper. Junior, throughout the year, two lectures and one laboratory period. Three hours credit. Laboratory fee, \$3.50. *Professor Fain.*

3. **Farm Crops.** This course is designed to give the students an opportunity to continue the study of farm crops begun in Course 1. Definite problems with one or more crops will be given the student. Prerequisites, Farm Crops 1 and Botany 1. Experiment station literature will be used in lieu of a text. Senior, throughout the year. Two lectures and one laboratory period. Credit, three hours. Laboratory fee, \$3.50. *Professor Fain.*

4. ***Seeds.** Seeds will be considered as to their structure, production, vitality, purity, commercial grades, centers of production and market values. Experiment station literature will be used in lieu of a text. Senior, the first half of the year. Two lectures and

(NOTE:—Farm Crops 3 will alternate with 4 and 5 and will be offered in the session of 1920-21).

one laboratory period per week. Credit, one and one-half hours. Laboratory fee, \$3.50.

5. **Weeds.** A general study will be made of habits of growth, crop relationship and means of eradication. A classification of the weeds of the state as far as practicable will be made. Such literature as available from experiment station and other sources will be used. Last half of year. Two lectures and one laboratory period. Credit, one and one-half hours. This course will be given in connection with Farm Crops 4, and one laboratory fee will cover both courses. Prerequisite for both Farm Crop 1, Botany 1.

SOILS

1. **Soil Physics.** Origin of soils, rock disintegration and physical properties of soils as related to tillage, preparation of seed beds and crop growth. Laboratory experiments are required with important soil types. Students may substitute home soil for one soil type. Prerequisites, Chemistry 1. Text, "Soils, Their Properties and Management," by Lyon, Fippin and Buckman. In addition to text parallel readings will be assigned. First half year. Sophomore. Two lectures and one laboratory period each week. Credit, one and one-half hours. Laboratory fee, \$3.50. *Associate Professor Crabb.*

2. **Soil Fertility.** Factors in crop production, chemical properties of soils, value of lime, commercial fertilizers, drainage of the soil and the maintenance of soil fertility. Prerequisite, Soils 1. Text, "Soils, Their Properties and Management," by Lyon, Fippin and Buckman. Parallel readings will be assigned in addition to the text. Second half year. Sophomore. Two lectures and one laboratory period each week. Credit, one and one-half hours. Laboratory fee included in Soils 1. *Associate Professor Crabb.*

3. ***Soil Formations.** A study of rock disintegration and geological changes relating to the origin and formation of soils, soil provinces, series and types of the United States, together with the crop adaptation and practices relating to agriculture. Special study will be made of southern soils and conditions. Soil surveys will be conducted and special study of the interpretation of soil surveys and soil survey reports will be made. Prerequisite, Soils 1 and 2. Text, "Physical Geology," Pierson and Schuchert. Bulletins of the Bureau of Soils, United States Department of Agriculture. First and second terms. Juniors and seniors. Two lectures and one laboratory period each week. Credit, two hours. Laboratory fee, \$3.50. *Associate Professor Crabb.*

3a. **Soil Survey.** Required of students specializing in soils. Field survey of soils. Purpose, to give students experience in soil mapping and in the preparation of base maps and soil survey reports.

Prerequisites, Soils 1, 2, 3 and 4. Assigned readings will be required. Three months in summer between junior and senior years. Credit, three hours. *Associate Professor Crabb.*

4. ***Drainage and Irrigation.** History and development of farm drainage and irrigation. Principles and practices of the control of soil moisture and its economic relation to crop production. Special study of problems related to soils of the south will be made. Prerequisites, Soils 1, 2 and 3. Text, "Practical Farm Drainage," by Elliott; "Uses of Water in Irrigation," by Fortier. Parallel readings will be required in addition to texts. Third term, juniors and seniors. Two lectures and one laboratory period each week. Credit, one hour. Laboratory fee included in Soils 3. *Associate Professor Crabb.*

5. ***Soil Management.** A study of the occurrence of predominant soils of the south, their physical properties and plant food content. Crop adaptation and systems of cultivation will be studied. Methods for increasing soil fertility and establishing permanent agriculture will be made. Greenhouse studies of the needs of the principal soil types of the state will be made. Prerequisites, Soils 1 and 2. Parallel readings required. First, second and third terms. Credit, three hours. Two lectures and one laboratory period each week. Laboratory fee, \$3.50. Course given in 1921-22. Alternate with Soils 6. *Associate Professor Crabb.*

6. ***Fertilizers and Manures.** Plant food requirements of farm crops. History of fertilizer industry, source, manufacture, application of fertilizer materials, and effect on crop growth, soil amendments, production, value and protection of farm manures. Greenhouse study of the effects of fertilizer on plant growth will be made. Prerequisites, Soils 1 and 2. Text, "Fertilizers and Crops," by Van Slyke. Parallel readings will be required. First, second and third terms, juniors and seniors. Two lectures and one laboratory period each week. Credit, three hours. Laboratory fee, \$3.50. Course given in 1920-21. Alternates with Soils 5.

7. **Elementary Soils.** An introductory course on the origin and physical properties of soils. Plant food content of various soil types are studied. Soil management, crop adaptation and use of fertilizers. Text, "Soils and Fertilizers," by Lyon. First, second and third terms, one-year students only. Three lecture periods each week. *Associate Professor Crabb.*

COTTON INDUSTRIES

1. **Cotton Industry.** Special students who wish to take work in cotton industry will be given an opportunity to become familiar

(NOTE:—Courses *3, *4, *5, and *6 will not be given unless as many as five students are registered for them).

with the literature of cotton. A certain amount of field work will also be required. The instructor will meet with such students once or twice a week for conference and direction. This course given only on permission from the professor in charge. Three hours credit. Fee, \$3.50. *Associate Professor Childs.*

3. Production of Cotton and Other Fiber Crops. A study of all phases of cotton production. As a matter of comparison with the cotton crop other fiber crops will be considered. Junior or senior, entire year. Two lectures, one laboratory period. Three hours credit. Fee, \$3.50. *Associate Professor Childs.*

4. Plant Breeding. A general course in the principles of breeding. The breeding of cotton is given especial emphasis but the breeding of other farm crops is given important consideration. This course also includes the principles of breeding farm animals to meet the need of animal husbandry students. Prerequisite, Botany 1. Text, "Genetics in Relation to Agriculture," Babcock and Clausen. Supplemented by references. Two lectures and one laboratory period entire year. Junior or senior. Three hours credit. Fee, \$3.50. *Associate Professor Childs.*

7. Research Plant Breeding. Plant breeding 4 is a prerequisite for this course. An advanced course in breeding giving special attention to the Mendelian principles and to statistical methods. Text, Punnett's "Mendelism," supplemented by references. Entire year, senior. One lecture, two laboratory periods. Three hours credit. Fee, \$3.50. *Associate Professor Childs.*

9-10. Cotton Industry. Cotton grading, warehousing and marketing. Experimental cotton breeding. Prerequisite, Cotton Industry 3 or 4. Given only as summer course. Five hours laboratory work for five weeks. Three hours credit. Fee, \$15.00. *Associate Professor Childs.*

11. Cotton Grading. A study of the factors effecting the grades of cotton, warehousing, grading and marketing will be taken up. Students will be required to handle the different grades until they are thoroughly familiar with them. A set of the United States Standard Grades will be used as the standard. Entire year. One lecture and two laboratory periods. Junior or senior. Laboratory fee, \$15.00. Will not be given unless as many as ten men register for the work. Three hours credit. *Associate Professor Childs.*

FARM ECONOMICS

1. Agricultural Economics. A general study of the principles of agricultural economics with a general survey of agricultural conditions in this and other countries. Sophomore or junior, throughout the year, three lectures per week, credit, three hours. Beginning session 1921-22.

2. Elementary Farm Management. The application of the general principles of economics to an individual farm will be considered in this course with especial reference to conditions as they exist in Georgia. Prerequisites, Farm Economics 1. Freshman and sophomore work. Junior throughout the year two lectures and one laboratory period. Credit, three hours. Laboratory fee, \$3.50. *Professor Fain.*

3 Advanced Farm Management. A continuation of the study of the individual farm as begun in Farm Economics 2. A special study will be made of the farm records that have been secured in the state. Text, farm management records of the state. Senior throughout the year. Prerequisite, Farm Economics 2. One lecture and two laboratory periods. Credit, three hours. Laboratory fee, \$3.50. *Professor Fain.*

4. Markets. A general survey will be made of market conditions and general factors that will have to be considered in getting the most for the farm crops. Prerequisites, Farm Economics 2. Senior, first half of the year. Two lectures and one laboratory period. Credit, three hours. Laboratory fee, \$3.50.

ANIMAL HUSBANDRY

MILTON P. JARNAGIN, Professor.

G. R. SKINNER, Associate Professor.

H. N. KALDAHL, Associate Professor.

G. P. SAYE, Associate Professor.

AMBROSE P. WINSTON, Farm Foreman.

R. M. GRIDLEY, Live Stock Production Specialist.

W. H. HOWELL, Extension Dairy Husbandman.

CHAS. E. KELLOGG, Beef Cattle Specialist.

L. H. MARLATT, Field Agent in Cheese Production.

CARL WALLACE, Field Agent in Swine Husbandry.

A. S. BUSSEY, Scientific Assistant.

1. Types and Market Classes of Live Stock. Various types and grades of live stock are considered from the standpoint of adaptation to local conditions and market demands. It includes a consideration of the value of beef type in beef making, the American market classification, stock classes and grades of cattle and breeding for market. The dairy type is considered with reference to function of milk secretion, variation in the usefulness of dairy cows, breeding for milk production and for dual-purposes.

The lard and bacon type of hogs are studied, also the market demands. The mutton type, sheep markets and breeding for market demands are given consideration. Important factors in horse production and the market demands for various classes are studied. Text, "Types and Market Classes of Live Stock," Vaughan. Lab-

oratory fee, \$3.50 combined with Farm Crops. Two one-hour recitations and one two-hour laboratory period, third term, freshman. *Associate Professor Kaldahl.*

1a. Special Course for Junior Forestry Course.

2. Horses, Mules and Beef Cattle. In this course the origin, history and development of the various breeds of horses and beef cattle are studied. The adaptation of the various breeds and types to different conditions of soil, climate and environment is considered. A comparison of draft and light horses is made, and especial emphasis is laid on the adaptation of the different types of horses and mules to various kinds of work. Prerequisite, Animal Husbandry 1. Text, "Types and Breeds of Farm Animals," Plumb. Two one-hours recitations each week. First term, sophomore year. *Professor Jarnagin.*

3. Dairy Cattle. In this course the origin and utility of the several breeds of dairy and dual-purpose cattle are studied. Their adaptation to the production of milk, butter, cheese, or to both milk and beef making are carefully considered. A comparison of the profits derived from the various breeds under different conditions of farming forms an important part of the instruction provided. Prerequisite, Animal Husbandry 1. Text, "Types and Breeds of Farm Animals," Plumb. Two one-hour recitations each week, second term, sophomore year. *Professor Jarnagin.*

4. Sheep and Swine. This course embraces a study of the history and development of the various breeds of lard and bacon hogs, both of English and American origin. Especial attention is given in this course to types of hogs suited to grazing. The history of the various breeds of sheep is taken up and comparison of the several classes made. Special emphasis is laid on growing and marketing lambs and on classifying wool. Text, "Types and Breeds of Farm Animals," Plumb. Two one-hour recitations. Third term, sophomore year. *Professor Jarnagin.*

5. Stock Judging. The students receive training in the use of the score card for various classes of live stock, and study the standards of excellence as established by the several breed associations. In addition to this, they are given practical work in comparative judging and show-ring placing of various breeding and market classes of horses, dairy and beef cattle, bacon and lard, hogs and fine, medium and long wool sheep. Prerequisite, Animal Husbandry 1. Fee, \$3.50. One two-hour laboratory period each week. First, second and third term, sophomore year. *Professor Jarnagin.*

6. Live Stock Production. This course is designed for students specializing in Animal Husbandry, and deals especially with the production of hogs, beef cattle and horses, and includes a consideration of the adaptation of the beef breeds and specific needs. The

principles of breeding, feeding and general management are studied. The laboratory work will consist of advanced live stock judging and preparation for the show or sale ring. Practical work will be given in laying out the necessary yards, paddocks and housing facilities for the various classes of live stock. Prerequisite, Animal Husbandry 2, 3, 4, and 5. Text, "Profitable Swine Husbandry," Day, and experimental station bulletins. Fee, \$3.50. Two one-hour recitations and one laboratory period. Junior year. *Associate Professor Kaldahl.*

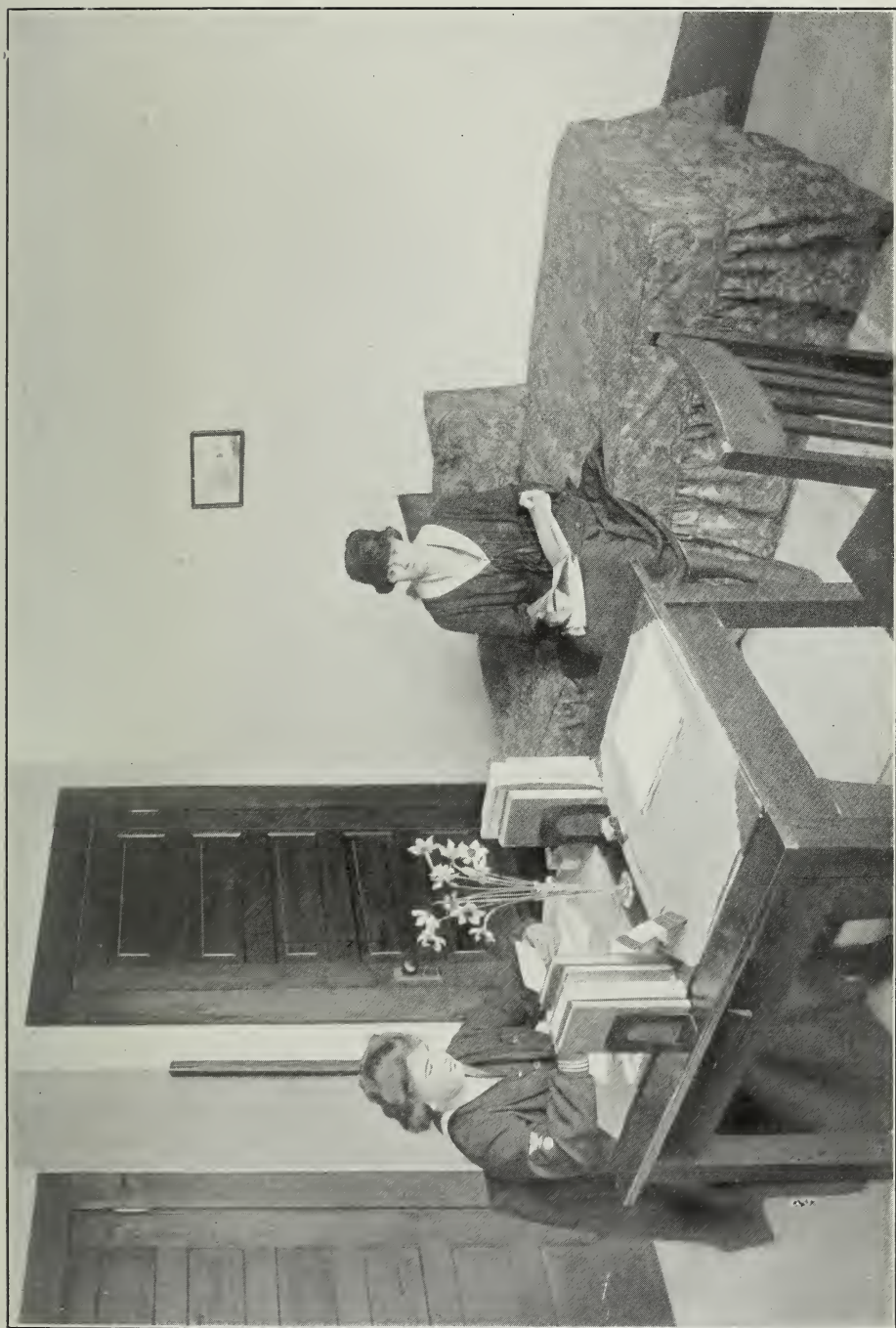
7. Principles of Dairying. This course includes the theoretical and applied side of dairy and creamery practice. A detailed study is made of the theory of milk secretion, formation and production; separation of cream by the shallow and deep setting systems, and by the use of centrifugal machines; the neutral fermentations occurring in milk, their benefit and control; the manufacturing of butter; the testing of milk and its products of butter fat. Prerequisite, Animal Husbandry 2, 3, 4, and 5. Text, "Manual of Milk Products," Stocking. Fee, \$3.50, combined with Animal Husbandry 14. One lecture and two laboratory periods per week. Fall term. *Associate Professor Skinner.*

8. Principles of Breeding. The principles of breeding include a consideration of selection, heredity, atavism, normal variation and fecundity. The methods of breeding studied include in-breeding, line-breeding, cross-breeding, and a review of the methods by which the best type of animals have been developed. Prerequisite, Animal Husbandry 6. Text, "Breeding of Animals," Mumford. Three one-hour recitations. Senior year. *Associate Professor Kaldahl.*

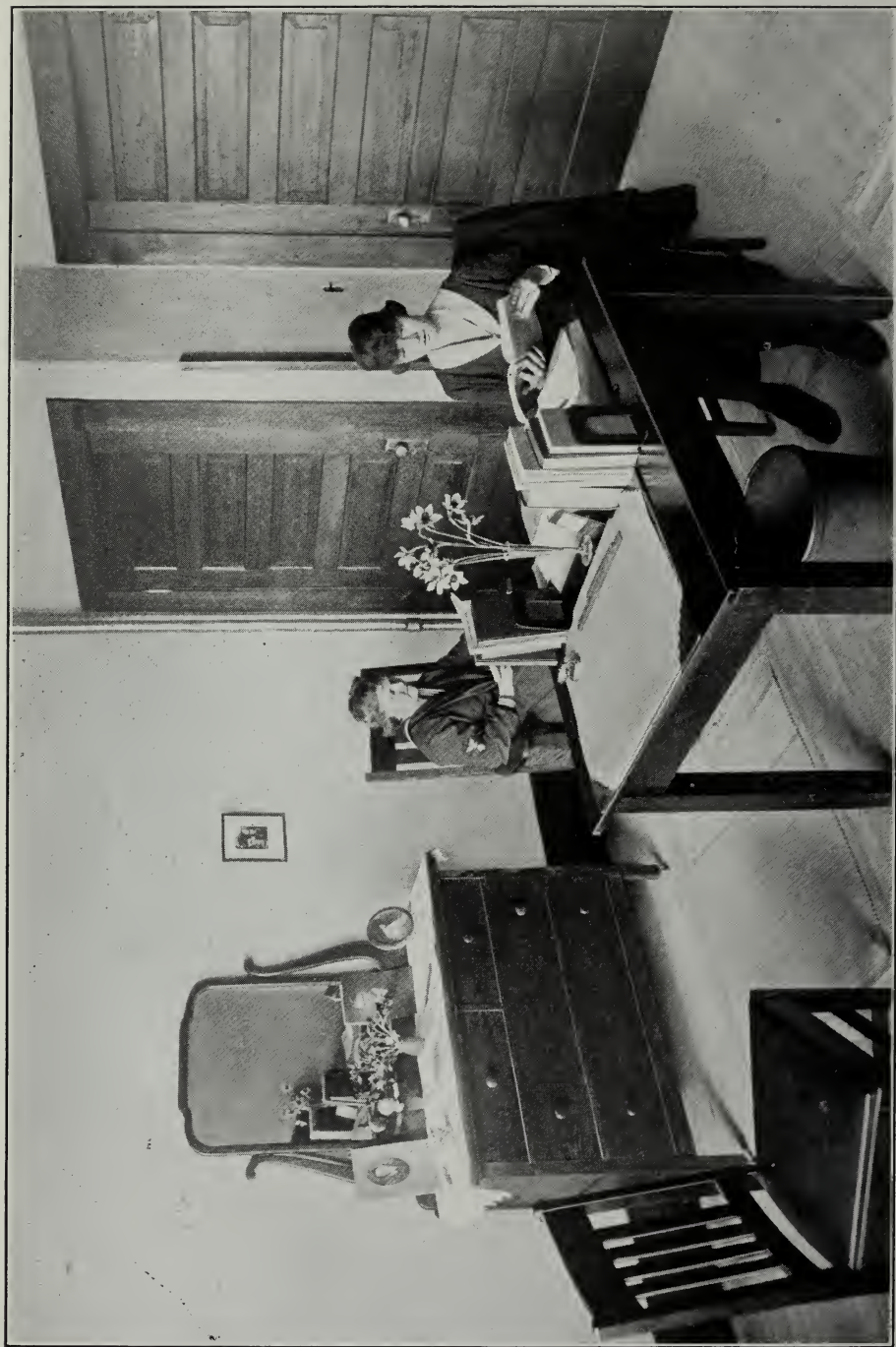
8a. Principles of Breeding. This course is designed for sophomore veterinary medicine students. It deals with heredity, selection, atavism, variation and cross-breeding. A study of the pedigrees of phenomenal animals and methods and principles followed by the best breeders are studied. Text, "Breeding of Farm Animals," Marshall. Three recitations per week, first term. Sophomore year. *Associate Professor Kaldahl.*

9. Animal Nutrition. In this course a study of the gross anatomy and physiology of the digestive system is included. The theoretical and practical side of compounding balanced rations for maintenance, milk and butter production, fattening and growth are fully explained. Texts, "Feeds and Feeding," Henry & Morrison. Three recitations per week. Senior year. *Professor Jarnagin.*

9a. Animal Nutrition. This course is designed for sophomore students in veterinary medicine. It deals specifically with feeding problems and the underlying principles of animal nutrition, together with a detailed study of results obtained by experimental feeding



The Woman's Building in addition to its delightful living rooms has a model gymnasium and a large swimming pool. (See page 66).



The living rooms in the new Woman's Building are comfortable and well furnished.

in the different experiment stations. Second and third terms. Text, "Profitable Feeding of Farm Animals," Woll. Three recitations per week. *Associate Professor Kahl Dahl.*

10. Advanced Work in Animal Nutrition. This course is provided for advanced students in animal husbandry. The results of feeding tests at the various experiment stations and agricultural colleges in this and other countries are reviewed. Three one-hour recitations per week. First term. Senior year. *Professor Jarnagin and Associate Professor Kaldahl.*

11. Feeding Problems. Qualified students are allowed to assist in conducting feeding tests, keeping records and summarizing results of experimental feeding conducted by the division of animal husbandry. They will also be expected to make analyses of the various feeding stuffs used and to determine the fertilizing value of the excreta obtained from various classes of farm animals. Three one-hour recitations per week. Second term. *Professor Jarnagin and Associate Professor Kaldahl.*

12. Economics of Animal Production. In this course the various types and breeds of live stock are considered in their relation to the utilization of various farm crops, the productiveness of the soil and the creation of wealth in general. Three one-hour recitations per week. Third term. *Professor Jarnagin and Associate Professor Kaldahl.*

13. Research Work in Animal Husbandry. Qualified students are allowed to carry on investigations in animal husbandry under the approval and direction of the professor in charge of the department. Three hours. Senior. *Professor Jarnagin and Associate Professor Kaldahl.*

14. Dairy Manufacturing. This course is a continuation of "7" and deals specifically with creamery problems. It includes butter making with power machinery, ice cream manufacturing, butter judging, creamery machinery and creamery management. Prerequisite, Animal Husbandry 7. Text, "Manual of Milk Products," Stocking. Fee, \$3.50, combined with Animal Husbandry 7. Two laboratories and one recitation. Second and third term. Junior. *Professor Jarnagin and Associate Professor Skinner.*

15. Milk Production and Dairy and Farm Management. This course includes advanced judging of dairy cattle, the breeding, feeding and management of dairy cattle and marketing of dairy products. Text, "Dairy Cattle, Feeding and Management," Larson and Putney. Fee, \$3.50. Two recitations and one laboratory throughout the senior year. *Associate Professor Skinner.*

16. Animal Husbandry. This course is designed especially for students in home economics and will include production and handling of milk and its products in the home. Farm butter making and the

making of various kinds of soft cheeses will be taken up. Considerable attention will be given to the testing of milk and its products and food value of the same. Text, "Manual of Milk Products," Stocking. Fee, \$3.50. One lecture and two laboratory periods, second half year. One and one-half hours credit. *Associate Professor Skinner.*

17. Feeds and Feeding. (Smith-Hughes Vocational Students). The underlying principles of feeds and feeding will be studied with particular emphasis on the practical problems of feeding farm animals. The students will be required to carry out feeding demonstrations with animals on the College farm, and keep accurate records of kinds and amounts of feeds used, and their efforts on the animals. Text, "Feeds and Feeding," Henry & Morrison. Fee, \$3.50. Two recitations per week and the necessary time in the barn for carrying out the feeding problems and completing records. Credit will be given for one laboratory period each week. *Professor Jarnagin.*

FORESTRY

JAMES B. BERRY, Professor.

3. Farm Forestry. Forestry as an adjunct to agriculture. Forest influences, nursery practice, field planting, thinnings and improvement, cuttings, protection, estimating timber, wood measurements, seasoning and preservative treatment of wood, financial results. Text, Moon & Brown's "Elements of Forestry." Two recitation periods and one laboratory period, second half-year. Open to juniors in agriculture. One and one-half hours credit.

4a. Tree and Shrub Identification. Systematic study of the local flora. Winter and summer characteristics. Collection and preparation of material for class use. Practical field identification. Preparation of note book and herbarium. Text, Trelease's "Plant Materials." Three laboratory periods, first half of year or summer term. One and one-half hours credit. Fee, \$2.50.

5a. Nursery Practice. Growing seedlings. Transplanting. Protection and care of nursery stock. Propagation. Nursery inspection. Practicum work in all phases of nursery business. Mimeographed notes. Three laboratory periods, second half year. One and one-half hours credit. Open to juniors in agriculture. Fee, \$2.50.

11. Forest Economics. The relation existing between the practice of forestry, industry, and the prosperity of a country. Taxation. Reports upon the economic importance of specific industries will be a feature of the course. Text, Fernow's "Economics of Forestry." Three recitation periods, second term. Open to juniors.

15a. Wood Identification and Uses. Structure and properties of

wood. General characteristics. Practical means of identification. Effect of stains and oils. Adaptability to specific needs. The subject is considered from the standpoint of home furnishing. Text, Record's "Economic Woods of the United States." Three laboratory periods, second half-year. Open to juniors in agriculture and home economics. One and one-half hours credit. Fee, \$1.00.

27. **Wood Preservation.** The primary cause of decay; factors governing the lasting powers of different species; the preservation of woods by the application of paints and oils to the surface; the impregnation with creosote and other wood preservatives; the commercial method of impregnation; description of preserving plants and the fire-proofing of timber. Text, Weiss' "Preservation of Structural Timber." Three laboratory periods, second half-year. One and one-half hours credit. Open to juniors. Fee, \$1.75.

HORTICULTURE

T. H. McHATTON, Professor.

H. W. HARVEY, Specialist in Landscape Gardening.

GEORGE H. FIROR, Field Agent in Horticulture.

J. H. MILLER, Associate Professor of Horticulture.

H. M. McKAY, Field Agent in Horticulture.

N. D. PEACOCK, Instructor in Horticulture.

S. E. McCLENDON, Field Agent, U. S. Coop.

C. B. SWEET, Foreman.

1. ***Elements of Horticulture: Fruit Growing.** A general study of location, site, frost, planting, varieties, tillage and management. Reference books, "Productive Orchardng," Sears, and "Popular Fruit Growing," Green. Three lectures per week, fall term, freshman class, one hour credit. *Dr. McHatton.*

2. ***Pruning and Propagation.** A course in grafting, budding and other methods of propagation, with a study of pruning and its practice and effect. Reference books, "Principles and Practices of Pruning," Kains, and "Plant Propagation, Greenhouse and Nursery Practices," Kains. A laboratory course of three hours per week, winter term, freshman class, one hour credit. *Dr. McHatton.*

3. ***Elements of Horticulture: Truck Gardening.** A study of the main truck crops as to planting, tillage, marketing, etc. Also a study of hotbeds and their management. Reference books, "Sub-tropical Vegetable Gardening," by Rolfs, and "Garden Farming," by Corbett. Three laboratory periods per week, spring term, freshman class, one hour credit. *Dr. McHatton.*

4. **Small Fruits: Fruit Harvesting, Storing and Marketing.** A study of the various small fruits of interest to the horticulturist for

* Laboratory fee for 1, 2, and 3, \$3.00.

the first half of the term, second half of the term given to fruit handling, storing and marketing. Prerequisite, Horticulture 1, 2 and 3.

By special permission Horticulture 1, 2 and 3 may be carried parallel with the junior course. Reference books, "Bush-Fruits," Card; "Fruit Harvesting, Storing and Marketing," Waugh. Three lectures per week, fall term, junior or senior year, one hour credit. *Mr. Peacock.*

5. ***Pomology and Garden Seeds.** A course in systematic pomology and the testing of garden seeds. Reference books, "Systematic Pomology," Waugh, with others. Prerequisite, Horticulture 1, 2, 3 and 4, the latter course being taken parallel. Three laboratory periods per week fall term, junior or senior year, one hour credit. *Mr. Peacock.*

6. **Greenhouse Management and Floriculture.** A study of the management of the various flower and vegetable crops grown under glass. Prerequisite, Horticulture 1, 2 and 3. Reference books, "Principles of Floriculture," White; "Greenhouse Management," Taft; and "Practical Floriculture," Peter Hunderson. Three lectures per week winter term, junior or senior year, one hour credit. *Mr. Peacock.*

7. ***Greenhouse Construction and Management.** A study of different types of greenhouse heating, construction, etc. Visits to commercial florists with maps, plans and elevation of greenhouses and heating systems required. Practical work in greenhouses. Prerequisite, Horticulture 1, 2 and 3, 6 being carried parallel. Reference books, "Greenhouse Construction," Taft; "Principles of Floriculture," White. Winter term, junior or senior year. Laboratory, three periods per week. One hour credit. *Mr. Peacock.*

9. ***Spraying.** A study of the history and chemistry of spraying. Practice in the making and application of material. A study of the nozzle and machinery. Prerequisite, Horticulture 1, 2 and 3. Reference books, "Spraying of Plants," Lodeman. Three laboratory periods per week. Spring term, junior or senior year, one hour credit. *Mr. Peacock.*

10. **Landscape Gardening.** A study of the various schools of landscape architecture. The plants used in producing the various effects. A problem will be given each student and a drawing giving the solution of the same required. This course is especially adapted for Smith-Hughes students and Home Economics. Prerequisite, Horticulture 1, 2 and 3, or equivalent. Reference books, "Ornamental Gardening as Applied to Home Decorations," Long; "Landscape Gardening," Waugh. Three lectures per week, spring term, one hour credit. *Dr. McHatton.*

* Laboratory fee for Horticulture 5, 7 and 9, \$3.50.

11. Advanced Pomology. A course in the detailed study of the practical and scientific phases of fruit growing. Prerequisite, Horticulture 1 to 10 inclusive. There are no texts, numerous references are made to various pomology books. Three lectures per week throughout the year. Senior year. Three hours credit. *Dr. McHatton.*

12. Thesis. A problem relative to any of the following courses 11, 14, 15 and 16 will be assigned to the student for study. At the end of the year a thesis stating the problem, results, etc., will be required. There are no texts, only references. Three laboratory periods per week throughout the year for seniors. Course 12 must be taken by students majoring in horticulture. Three hours credit. Laboratory fee, \$3.50. *Dr. McHatton.*

13. Economic Entomology. A course in practical entomology designed especially for use upon the farm. Special attention is paid to the identification of insects and their control. A collection is required of the student at the end of the work. Reference books, "Manual for the Study of Insects," by Comstock; "Insect Pests of Farm, Garden and Orchard," by Sanderson; "Manual of Fruit Insects," by Slingerland & Crosby. Last half of the winter term and all of the spring term. Junior or senior. One and one-half hours credit. Laboratory fee, \$2.50. *Dr. McHatton.*

14. Advanced Olericulture. A practical and scientific study of the problems of vegetable culture, both outdoors and under glass. Prerequisite, Horticulture 1 to 10 inclusive. No texts, work supplemented with numerous references. Three lecture periods per week given throughout the year to seniors. Three hours credit. *Dr. McHatton.*

15. Advanced Floriculture. A study of the more practical and scientific problems of flower growing, both under glass and outdoors. Prerequisite, Horticulture 1 to 10 inclusive. No texts, but work supplemented with numerous references. Three lectures per week, open to seniors. Three hours credit. *Dr. McHatton.*

17. Vocational Horticulture. A study of the introduction, dissemination and classification of the most common of our fruits. Pomological descriptions will also be required. The second term's work will consist of the study of sprays and spraying. The causes of injury to trees and fruits will be looked into and the methods of making and applying sprays will receive close attention. The third term's work will consist of landscape gardening similar to Course 10, special attention being paid to the adapting of the course for

(NOTE:—The professor in charge will not be required to give Courses 11, 14, 15, or 16 to less than five students, unless the whole senior class in horticulture is less than five, in which case he may put all the members in the course most acceptable to them. Special arrangements may be made for especially desirable, mature and sufficiently prepared students who wish to enter any of the above courses).

the use of teachers in agricultural schools. Prerequisite, Horticulture 1, 2 and 3. Parallel reading will be required throughout the course. Two lectures and one laboratory period per week for the year. Elective for junior and senior in agricultural education. Three hours credit. Laboratory fee, \$3.50. *Dr. McHatton and Mr. Peacock.*

18. **Summer School Course in Plant Propagation and Vegetable Gardening.** (See page 103).

19. **Summer School Course in Fruit Growing and Pruning.** (See page 103).

20. **Elements of Horticulture: Fruit Growing.** A general study of the location, site, frost, planting, varieties, orchard tillage and management. Special attention given to home fruit garden. Reference books, "Productive Orchardng," Sears; and "Popular Fruit Growing," Green. Three lectures per week. Fall term, junior year. One hour credit. *Dr. McHatton.*

21. **Pruning and Propagation.** A course in grafting, budding and other methods of propagation. Also a study of pruning with its practice and effect. A few periods are devoted to a study of varieties, both for the orchard and truck garden, some additional practical work in the propagation of greenhouse plants. Reference books, "Principles and Practices of Pruning," Kains; and "Plant Propagation, Greenhouse and Nursery Practices," Kains. A laboratory course of three periods per week, winter term, junior year. One hour credit. *Dr. McHatton or Mr. Peacock.*

22. **Elements of Horticulture: Truck Gardening.** A general study of the main truck crops as to planting, tillage and handling with the addition of the study of hotbeds and their management. Special emphasis placed on the planting and care of the home vegetable garden. Reference books, "Sub-tropical Vegetable Gardening," Rolfe; and "Garden Farming," Corbett. Three laboratory periods per week. Spring term, junior year. One hour credit. Laboratory fee for Horticulture 20, 21 and 22, \$3.50. *Dr. McHatton or Mr. Peacock.*

PLANT PATHOLOGY

JAMES B. BERRY, Professor.

Botany 1 or Forestry 25 are prerequisites to all courses in Plant Pathology. Plant Pathology 1 is a prerequisite for Courses 2, 3, 4 and 5, 7 and 8.

1. **Microbiology.** Systematic classification of microbiological organisms producing a pathological condition in economic plants. Laboratory methods. Preparation of materials. Text, Gilmer's "Microbiology." Three laboratory periods, first half year. Open to juniors, one and one-half hours credit. Fee, \$2.00.

2. **Pathology of Field Crops.** Important diseases of cotton, cereals, potato and forage crops. Methods of identification. Life cycle. Control. Texts, Stevens' "Fungi;" Dugger's "Fungus Diseases of Plants;" Stevens and Hall's "Diseases of Economic Plants." Three laboratory periods, second half-year. Open to juniors, one and one-half hours credit. Fee, \$1.50.

3. **Pathology of Horticultural Crops.** Economic diseases of orchard, vineyard and garden. Identification. Life cycle. Methods of control. Spraying and pruning in their relation to fruit and truck production. Texts, Stevens' "Fungi;" Taubenhaus' "Diseases of Truck Crops;" Hesler and Whetzel's "Manual of Fruit Diseases." Three laboratory periods, second half-year. Open to juniors, one and one-half hours credit. Fee, \$1.50.

4. **Dendropathology.** Study of forest tree diseases. Identification and control. Effect on system of management. Organisms producing decay in wood. Control. Texts, Stevens' "Fungi;" Rankin's "Manual of Tree Diseases." Three laboratory periods, second half-year. Open to juniors, one and one-half hours credit. Fee, \$1.50.

5. **Laboratory Technique.** Preparation of media and cultures. Artificial inoculations. Sectioning. Mounts. Research methods. Text, Chamberlain's "Histology." Three laboratory periods, entire year. Open to juniors and seniors. Three hours credit. Fee, \$3.50.

6. **Plant Diseases.** Plant functions. Causes of diseased condition. Identification of common diseases of garden and orchard. Control measures. Text, Stevens and Hall's "Diseases of Economic Plants;" Hesler and Whetzel's "Manual of Fruit Diseases." Three laboratory periods, first term or summer term. Open to juniors. One hour credit. Fee, \$1.50.

7. **Pathological Problems.** Laboratory and field studies along investigational lines. May supplement Course 5. Text, Special outlines. Three laboratory periods, entire year. Open to seniors. Three hours credit. Fee, \$3.50.

8. **History of Plant Pathology.** Historical development of the science of pathology. English, French and German literature. Text, "Special outlines, Whetzel's "History of Plant Pathology." Three lectures and recitations, entire year. Open to seniors. Three hours credit. Fee, \$3.50.

POULTRY HUSBANDRY

J. H. WOOD, Associate Professor of Poultry Husbandry.

MAUDE SMITH, Field Agent in Poultry Husbandry.

1. **Poultry Husbandry: Farm Poultry Production.** A general course covering the farm poultry industry, a study of the breeds best suited to farm conditions, poultry house construction, hatching and brooding, marketing of poultry products. Two one-hour

lectures and recitations, and one laboratory. Freshman, spring term. Text book, "Poultry Culture, Sanitation and Hygiene," by Kaupp. Credit, one hour. Fee, \$1.50. *Associate Professor Wood.*

1a. Poultry Husbandry: Farm Poultry. A general course covering the farm poultry industry; a study of the breeds best suited to the farm conditions; farm poultry house construction; feeding and general management of the farm flock; production of market poultry; grading and marketing of poultry products; poultry diseases and parasites. Two one-hour lectures or recitations and one laboratory. Senior, fall term. Text book, "Poultry Culture, Sanitation and Hygiene," by Kaupp. Credit, one hour. Fee, \$1.50. *Associate Professor Wood.*

2. Poultry Husbandry. A continuation and elaboration of Courses 1 or 1a, one of which is a prerequisite. Special study will be given to principles of poultry breeding, management of breeding stock, incubation, brooding and care of the small chicks. Students will be required to operate incubators, brooders and care for baby chicks. Two one-hour lectures or recitations, and one two-hour laboratory. Senior, winter term. Credit, one hour. Laboratory fee, \$1.50. *Associate Professor Wood.*

3. Poultry Husbandry: Commercial Poultry Keeping. Locating and laying out a poultry farm, study of the breeds of poultry, judging from the fancy and utility standpoint, poultry house construction, poultry house equipment, field fences, shade, etc. Marketing poultry and products. Two one-hour lectures or recitations and one laboratory period. Must be preceded by Courses 1 or 2. Junior elective, fall term. Credit, one hour. Text, "Productive Poultry Husbandry," by Lewis. Laboratory fee, \$1.50. *Associate Professor Wood.*

4. Poultry Husbandry. A continuation of Course 3. A study of the management of the breeding stock, incubation, brooding, and the feeding and care of the young stock. Students will be required to operate incubators and care for the chicks hatched until six weeks of age. One hour recitation and the equivalent of two two-hour laboratory periods. Must be preceded by Course 3. Junior elective, winter term. Credit, one hour. Laboratory fee, \$1.50. *Associate Professor Wood.*

5. Poultry Husbandry: Practical Poultry Culture. A continuation of Courses 3 and 4. This course takes up the subjects of poultry feeds and feeding, management of the laying stock, care of growing stock, etc. Practice in killing, grading and packing of poultry products. Students will be required to care for pen of birds, keep accurate records. One one-hour lecture or recitation and the equivalent of two two-hour laboratory periods. Junior elective,

spring term. Credit, one hour. Laboratory fee, \$1.50. *Associate Professor Wood.*

6. Poultry Husbandry: Seminar and Judging. Must be preceded by Courses 1, 2, 3, and 4. Lecture period will be devoted to informal discussion of recent poultry investigations. Students will be required to prepare and present a paper on special topics assigned by the instructor; to review bulletins and discuss general topics that confront the department from time to time. Laboratory periods will be used largely for work in preparing, conditioning and judging show room types. One hour discussion, conditioning and laboratory periods. Credit, one hour. Text, "Standard of Perfection." Fee, \$1.50. *Associate Professor Wood.*

6. Poultry Husbandry: Project Problems. Students having completed Courses 1, 2, 3 and 4 are qualified to take up this work. Students will carry on incubator, brooding, feeding, disease or parasite test; keep accurate accounts and write a complete thesis on the results. Senior elective. Time to be arranged with professor in charge at the beginning of the senior year. Credit, one, two or three hours, depending on the extent of work carried on. Laboratory fee, \$3.50 per credit. *Associate Professor Wood.*

VETERINARY MEDICINE

W. M. BURSON, Professor.

J. E. SEVERIN, Associate Professor.

W. C. BURKHART, Associate Professor.

H. V. PERSELLS, Hog Cholera Specialist.

LOUIS H. WRIGHT, Associate Professor.

— — — — —, Adjunct Professor.

3. A lecture course covering the anatomy and physiology of farm animals. The horse is the basis of study and variations in other species are noted. Illustrative material are skeletons, charts, models and living animals. Elective as minor for juniors in agriculture. Entire year. Two hours per week. Fee, \$3.50. *Dr. Burson.*

4. Laboratory work in the above subjects. One two-hour period per week, entire year. *Dr. Burson.*

5. A course of lectures on diseases of farm animals and farm sanitation. Special attention is paid to diseases of young animals; measures that the farmer can use in prevention and control of contagious diseases and parasites and first aid treatment to injured animals are stressed. Prerequisite, Courses 3 and 4. Elective as minor for seniors in agriculture. Entire year. Two hours per week. Fee, \$3.50. *Dr. Burson.*

6. Clinics and examinations of sick animals at Veterinary Hospital. Examination of animals for blemishes and unsoundnesses.

Companion course to Course 5. One two-hour laboratory period per week for entire year. *Dr. Burson.*

BACTERIOLOGY

1. **General Bacteriology.** This course is designed to give the student a conception of the activities of bacteria. It treats of the biological, physiological and morphological features of bacteria. Laboratory work in the preparation of media, making of cultures, methods of staining and study of the physiological activities of bacteria. One hour lecture and recitation and two two-hour laboratory periods per week, first half year for juniors. Laboratory fee, \$3.50; breakage fee, \$5.00. *Dr. Burkhart.*

3. **Dairy Bacteriology.** This course is designed to give the student in agriculture a more complete knowledge of the organisms with which he will come into contact in his practical dairy work. It consists in the study of the sources, growth and activities of bacteria that are to be found in dairy products. Organisms pathogenic to man and which are frequently found in dairy products are carefully studied. Pasteurization of milk and dairy sanitation are given the attention that their importance deserves.

Infectious diseases of dairy cattle such as tuberculosis, mastitis and infectious abortion are studied from a bacteriological point of view. The laboratory work concerns itself with the study of above-mentioned organisms and those essential in the production of butter and cheese. Prerequisite, Bacteriology 1. One lecture and recitation and two two-hour laboratory periods per week, last half year. Juniors in agriculture, home economics or veterinary degree courses. Fee, \$3.50; breakage fee, \$5.00. *Dr. Burkhart.*

5. **Household Bacteriology.** A special course in acid fermentation due to the growth of bacteria as it occurs in the production of cheese, bread, sauer kraut and other kinds of pickling. Pathogenic bacteria which usually contaminate food and water will be studied and the disinfection of premises considered. Juniors in home economics. Prerequisite, Bacteriology 1. One lecture and two two-hour laboratory periods, last half-year. Fee, \$3.50; breakage fee, \$5.00. *Dr. Burkhart.*

BACHELOR OF SCIENCE IN FORESTRY

JAMES B. BERRY, Professor.

All students wishing to take the degree of Bachelor of Science in Forestry must be sixteen years of age and must present credit for 15 entrance units as specified under "Terms of Admission" on cover of this catalog. A degree of B.S.F. is conferred on those completing the four-year course.

In the four-year professional course, opportunity is given to specialize in certain main lines. For those students desiring to specialize in city forestry an opportunity is offered for the election of landscape gardening and allied subjects; for those desiring to specialize in technical forestry, with the object of entering the federal or state service, the election of advanced courses in botany and forestry; for those desiring to specialize in lumber salesmanship and mill superintendency, the election of courses in economics and business administration; for those desiring to specialize in dendro pathology, the election of advanced courses in botany, and plant pathology.

OUTLINE OF COURSE**Freshman Year**

Subject	Credits
Chemistry 2, Inorganic Chemistry -----	3
Forest 25, Forest Botany -----	3
English 1, English Composition -----	3
Math. 1, Trigonometry -----	1½
Forest 19, Principles of Forestry -----	1½
Forest 4, Dendrology -----	3
Ag. Eng. 1, 2, 2a, and 5 or Graphics D1 and D2 -----	3

Summer Term

Forest 7, Forest Mensuration (Part 1) -----	2
Forest 12, General Forestry -----	4
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Sophomore Year

Ag. Chem. 2b, Qualitative Analysis -----	3
Economics 5, Elements of Economics -----	3
Physics 2, College Physics -----	3
Agronomy (Soil Physics 1) -----	3
Ag. Eng. 5a, Surveying, or Civil Eng. A1 -----	3
Forest 5, Silviculture -----	3

Summer Term

Forest. 7, Forest Mensuration (Part 2) -----	2
Forest. 16, Forest Practice -----	4
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	24

Junior and Senior Years

Not later than the beginning of the junior year the student is required to designate his specialization and must select, with the advice and approval of the head of the department, the course of study he desires to pursue during the following two years. The major and one minor must be selected from technical forestry subjects, one minor may be selected from departments in Group I, and twelve hours of general electives from departments in Group II. Whether or not a student will be permitted to elect more than eighteen hours of work a year will depend upon his class record.

Division of Time

	Hrs.
Major, Forestry -----	12
Minor, Forestry -----	6
Minor, Group I -----	6
Gen. Electives, Group II -----	12
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	36

Group 1

Agri. Engineering	Botany
Agri. Chemistry	Plant Pathology
Horticulture	Civil Engineering

Group II

General electives may be chosen from any department of the College of Agriculture or from any college or school of the University.

DESCRIPTION OF COURSES

1. **Forest Policy.** The development of policy as reflected in forest legislation. A comprehensive study of the forest laws of all countries, special stress being placed upon those in which the science of forestry has reached a high degree of perfection. A consideration of the forest legislation of the various states. The development of a policy. Text, Schenck's "Forest Policy." Three hours lecture and recitation, third term. Open to juniors. One hour credit.

2. **Farm Forestry** (Short course for one-year students). General consideration of the farm woodlot. Nursery practice practicable on

farm, field planting, improvement cuttings, measuring forest products, seasoning and preservative treatment of farm timbers. Text, Berry's "Woodland Forestry." Two recitation periods and one laboratory period, first term. Required of men enrolled in "One-Year Course in Agriculture." Fee, \$1.00.

3. **Farm Forestry.** Forestry as an adjunct to agriculture. Forest influences, nursery practice, field plantings, thinnings and improvement cuttings, protection, estimating timber, wood measurements, seasoning and preservative treatment of wood, financial results. Text, Moon and Brown's "Elements of Forestry." Two recitation periods and one laboratory period, second half-year. Open to juniors in agriculture. One and one-half hours credit. Fee, \$1.00.

4. **Dendrology.** Comprehensive study of the forest trees of North America. Taxonomy, botanical and silvical characteristics, range, winter and summer identification. Field work in the College arboretum. Text, Sargent's "Manual of Trees of North America," and Gibson's "American Forest Trees." Three laboratory periods, entire year. Three hours credit. Fee, \$3.50.

4a. **Tree and Shrub Identification.** Systematic study of the local flora. Winter and summer characteristics. Collection and preparation of material for class use. Practical field identification. Preparation of note book and herbarium. Text, Trelease's "Plant Materials." Three laboratory periods, first half-year or summer term. One and one-half hours credit. Fee, \$1.50.

5. **Silviculture.** Forest ecology. Collection and storage of seed. Seed testing. Natural and artificial production. Propagation. Location and construction of seed beds. Seeding and care. Transplanting. Field planting. Direct seeding. Silvicultural systems. Modifications of European systems adapted to American conditions. Texts, Clements' "Ecology and Physiology;" Toumey's "Seeding and Planting;" Schenck's "American Silviculture." One lecture and two laboratory periods, entire year. Three hours credit. Open to sophomores. Fee, \$3.50.

5a. **Nursery Practice.** Growing seedlings. Transplanting. Protection and care of nursery stock. Propagation. Nursery inspection. Packing. Practicum work in all phases of nursery business. Mimeographed notes. Three laboratory periods, second half-year. One and one-half hours credit. Open to juniors in agriculture. Fee, \$2.50.

6. **Forest Protection.** Methods of preventing, fighting and controlling forest fires. Location and use of lookout-towers, telephones, wireless and heliographs. Caches for tools and supplies. Maps and protection plans. Creating public sentiment and organizing local

residents. Three lecture and recitation periods, first term. One hour credit. Open to juniors.

7. Forest Mensuration. Part 1, freshman summer camp. Units of measurement, use of volume tables, estimating standing timber, log rules, mill scale studies.

7a. Forest Mensuration. Part 2, sophomore summer camp. Formation of volume tables, growth tables, yield tables. Advanced work in estimating standing timber. Texts, Graves' "Mensuration;" Carey's "Handbook for Northern Woodsmen;" Forest Service publications. Field work during summer term. Open to freshmen and sophomores. Two hours credit each term. Fee, \$7.00 each term.

8. Forest Management. First term. Forest organization. Consideration of the normal forest, volume of growing stock under different systems of silvicultural management. Determining the felling budget. Division of the forest area.

Second term. Forest finance. Value of forest property. Value based on productive capacity. Forest accounting. Financial rotation. Problems in forest finance. Taxation of forest property.

Third term. Working plans. Provision of the plan. Data necessary for the construction of a plan. Detailed study of a plan for a highly specialized forest. Preliminary working plans. Each student is required to make a detailed plan for a small forest area, collecting the necessary data himself, drafting his plan and placing it in final form filing in the school library. Texts, Chapman's "Forest Valuation;" Rechnagel's "Forest Working Plans;" D'Arcy's "Forest Working Plans;" Schlich's "Manual of Forestry," Vol. 3. Three laboratory periods, entire year. Open to seniors. Three hours credit. Fee, \$7.00.

9. Forest Utilization. Systematic study of logging operations in different sections of North America; character of tools used; wood transportation; comparison of costs of the various operations; labor conditions; camp, board and sanitation. Milling and manufacture; costs, marketing, grading. Specialized industries; wood pulp, handles, matches, etc. Seasoning of lumber; treatment to prevent stain.

A report on a specific operation is required. This will be according to outline and will include the woods operations, transport, milling, manufacture, utilization of waste, marketing. Each student is required to spend not less than ten days in a logging camp and around the mill in the collection of data reading, field work. Text, Bryant's "Logging;" Schlich's "Logging." Three recitation periods, entire year. Three hours credit. Open to juniors. Fee, \$3.50.

10. Forest History. An analysis of the economic conditions which have resulted in the development for forestry. The influence of

form of government and property rights. Text, Fernow's "History of Forestry." Three recitations, first term. Open to juniors.

11. **Forest Economics.** The relation existing between the practice of forestry, industry, and the prosperity of a country. Taxation. Reports upon the economic importance of specific industries will be a feature of the course. Text, Fernow's "Economics of Forestry." Three recitation periods, second term. Open to juniors.

12. **General Forestry.** Elementary forest field work in dendrology, surveying, logging, camping and packing. Training in the work of a Forest Service guard. Text, lecture, field work. Freshman, summer camp, two months. Four hours credit.

14. **Forest Administration.** Contracts, agency, appropriation of water for power and irrigation, affidavits, bonds, commercial paper. The work will be considered from the standpoint of the Forest Service. Text, Gano's "Commercial Law;" Kenny's "Forest Law." Three recitation periods, third term. Open to juniors. One hour credit.

15. **Wood Technology.** Structure of wood tissue; classification of fibers; identification of woods, generic and specific. Both microscopic and macroscopic identification will be considered. Each student is required to make a series of microscopic slides for use in the course. Texts, Record's "Economic Woods of the United States;" Kellogg's "Lumber and Its Uses." Three laboratory periods, entire year. Open to juniors. Three hours credit. Fee, \$3.50.

15a. **Wood Identification and Uses.** Structure and properties of wood. General characteristics. Practical means of identification. Effect of stains and oils. Adaptability to specific needs. The subject is considered from the standpoint of home furnishing. Text, Record's "Economic Woods of the United States." Three laboratory periods, second half year. Open to juniors in agriculture and home economics. One and one-half hours credit. Fee, \$1.00.

16. **Field Work.** Field work in forest surveying, silviculture, forest soils, logging, engineering, tree diseases. This work will be under the supervision of the head of department. Lecture and field work. Sophomore, summer camp, two months. Four hours credit.

17. **Seminar.** Systematic review, special investigative studies, research. To be considered in connection with Forest "18." Three hours, entire year. Three hours credit. Open to juniors.

18. **Thesis.** The subject of the thesis is selected in consultation with the head of the school and may be along lines of original research or simply investigative. For students desiring to enter private work it will be along the line of their specialization. The thesis must come up to certain specifications and will be filed in the Forest School library. Three hours credit. Open to juniors.

19. **Principles of Forestry.** Forest influences. Relation of for-

ests to agriculture, navigation, industry. Results of general deforestation. Products of the forest. Forest areas of the world. The movement for the conservation of natural resources. The profession of forestry. Text, Moon and Brown's "Elements of Forestry." Three recitation periods, second half-year. Open to freshmen. One and one-half hours credit.

20. Forest Reconnaissance. Methods of survey, mapping, and reporting adopted by the United States Forest Service. Adjustments and manipulation of instruments. Comparative values of different methods. Topographic mapping and map reading. Specialized maps for logging engineering. Working plan maps. Field work and drafting practices. Six laboratory hours. Three hours credit. Open to juniors.

21. Wood Utilization. A specialized course in the manufacture of wood; machinery, methods, products, special problems. Involves a detailed study of a number of wood-working industries. Reports according to outline. Lecture, collateral reading, field work. Three hours for entire year. Three hours credit. Open to juniors.

22. Forest By-products. A study of all industries dependent upon the forest for the raw material, the finished product of which is not wood in one form or another; turpentine orcharding, maple sugar, tan bark and extract wood, gums and resins, wood distillation, forest range. Lecture, collateral reading. Three hours, one term. One hour credit. Open to juniors.

23. Grades and Grading. A detailed study of the grading rules of the various associations. Practice work in grading. Lecture, collateral reading, field work. Three hours, one term. One hour credit. Open to juniors.

24. Mill Organization. The development of the modern sawmill and its equipment. Labor efficiency. Various systems of management. Involves a detailed study and report of several operations. Lecture, collateral reading, field work. Three hours, one term. One hour credit. Open to juniors.

25. Forest Botany. The subject is treated from the standpoint of the forester and furnishes a basis for the work in dendrology and silviculture. Texts, Bessey's "College Botany;" Martin's "Botany for Agricultural Students." Three laboratory periods, entire year. Three hours credit. Open to freshmen. Fee, \$3.50.

26. Wood Physics. A study of the strength of wood under different conditions and shapes, also the physical effect of moisture, heat and preservatives upon its strength is taken up. Texts, Record's "Mechanical Properties of Wood;" Betts' "Timber." Three laboratory periods, first half-year. One and one-half hours credit. Open to juniors. Fee, \$1.75.



A class in the cooking laboratory working out a balanced ration for each member of the family. In another department they study the chemistry of foods, and in still another the preparation and serving of foods. (See page 71).



BACHELOR OF SCIENCE IN HOME ECONOMICS

MARY E. CRESWELL, Director.

ERNA E. PROCTOR, Associate Professor, Foods and Cookery.

ROSALIE V. RATHBONE, Associate Professor, Textiles and Clothing.

BESSIE E. BOGGESE, Associate Professor, Institutional Economics.

EPSIE G. CAMPBELL, Assistant Supervisor of Vocational Home Economics.

LOIS P. DOWDLE, Assistant State Supervisor Home Demonstration Work.

BESSIE STANLEY WOOD, Assistant State Supervisor Home Demonstration Work.

The Division of Home Economics has been established in the Georgia State College of Agriculture for the purpose of offering courses of senior college rank dealing with all phases of scientific management of the home. The problems connected with food, clothing and shelter will be studied not only from the standpoint of the individual home, but also in their social and economic relationships.

Emphasis is placed upon subjects in agriculture which have special interest for women, and courses are arranged to suit their needs in the belief that these should be met not only to make the economic status of women more secure but also to enrich their lives in aesthetic and ethical ways.

The courses in Home Economics, Agriculture and related sciences are offered to meet the needs of women students seeking the following:

1. Higher education for the profession of home-making which includes general culture and preparation in the broadest sense for participation in municipal and rural community up-building along lines of health, sanitation and economic and social welfare.

These courses will give further training along lines which heretofore have been inadequately provided for by the state. They open opportunity for women in new fields of endeavor and will meet the growing demand of the women of Georgia for broader educational privileges.

2. Preparation for positions as county and supervising home

demonstration agents or specialists in extension work in Home Economics.

3. Preparation for high school teaching in Vocational Home Economics.

4. Training in institutional management, that is, the management of schools, hospitals, hotels from standpoint of diet and feeding; lunch rooms, cafeterias, tea rooms, etc.

5. Preparation for carrying on special lines of agricultural industry suited to women, such as horticulture (including floriculture and greenhouse management), commercial canning and preserving, poultry husbandry, home dairying, and plant pathology.

6. Professional training for teaching agricultural subjects related to women's work in normal schools and other institutions.

7. Lines of special technical and research work in which women can engage for the state and federal governments.

8. Editorial work in Agriculture and Home Economics.

Women's Building

The new women's building will be first occupied during the Summer School, 1920, and will be open for the regular session in September. It is on a high hill overlooking Athens, and is one of the most pleasing and delightful locations in the city. On the first floor of this building are well equipped laboratories for work in clothing, cookery, nutrition, laundry, as well as a swimming pool and gymnasium. The rest of the building is devoted to residence quarters including spacious parlors, infirmary, a housekeeping apartment for home management classes, baths, and thirty-five double bed rooms. Each student's room is equipped with two single beds, individual wardrobe closets, laboratories with hot and cold running water and other complete and attractive furnishings. This building is one of the most complete and efficiently equipped of its kind in the state and provides for the broadest opportunities for women in university life.

All non-resident women students registered in the College of Agriculture are expected to live here. It is also open to

women in other departments of the University as long as there are vacancies.

There will be a social director in charge of the physical and social welfare of the girls. She will not only sponsor the social life in the dormitory but will also see to proper chaperonage for other occasions when it is advisable to have such. She will be one of the agents of the student government by which the activities of the girls are regulated.

Each room is supplied with two single beds, two mattresses, two pillows, one dresser, one table, and three chairs. Students are to furnish their own bed linen, scarfs and towels.

The room rent is \$30.00 per term, per student, paid in advance. All applications should be made to Miss Mary E. Creswell, Director of Home Economics, Georgia State College of Agriculture, Athens, Georgia. Each application should be accompanied by a check for \$5.00, made payable to T. W. Reed, Treasurer, University of Georgia. This amount is required as a guarantee against damage and loss of keys and is wholly or in part refunded at the close of the year.

Meals may be had at the College cafeteria in the administration building. Monthly rates in accordance with the current prices will be made to students. The following estimate of expenses is given:

EXPENSES

Room Rent -----	\$ 90.00
Board -----	270.00
Books -----	20.00
Laboratory Fees -----	30.00
Laundry -----	36.00
Breakage Fee (returned) -----	10.00
Deposit on Room (returned) -----	5.00
Infirmary Fee -----	5.00
Gymnasium, including Swimming -----	10.00

\$476.00

Social Activities. Helpful forms of recreation and social intercourse will be provided. Organizations to promote public speaking and literary and dramatic expression will be encouraged and all students expected to take active part in these activities.

Entrance Requirements

The degree course in Home Economics requires four years work of college rank based upon entrance consisting of fifteen units from an accredited high school or the equivalent. The last two years of this course are offered at the State College of Agriculture. For admission to the junior class, graduation from a junior college is required. Women without such graduation may be admitted to the degree course provided they present certificates of equivalent work done in institutions of high rank in this state or elsewhere. In any case the work done must consist of 36 hours of standard college work. Women of sufficient maturity may enter as special students in courses for which they have prerequisites.

The two years of college work must include six hours English; six hours home economics; three hours chemistry; three hours physics; three hours educational psychology; two hours elementary drawing and design; three hours of biology (one and one-half hours of which may be physiology) and ten hours for electives. All science must carry standard laboratory work.

It is desirable that students offer for entrance to the junior class the following courses:

Freshman		Sophomore	
	Hours		Hours
English - - - - -	3	English - - - - -	3
Chemistry - - - - -	3	Educational Psychology - -	3
Biology - - - - -	3	Physiology - - - - -	1½
Elementary Drawing and		Sociology - - - - -	1½
and Design - - - - -	2	Physics - - - - -	3
Textiles and Laundering -	1½	Clothing - - - - -	1
Clothing - - - - -	3	(a) Pattern Designing	
(a) Elementary Gar-		Food Study - - - - -	3
ment Making		(a) Principles of	
(b) Elementary Dress		Cookery	
Making		(b) Home Cooking	
Elective - - - - -	2½	and Table Service	
		Elective - - - - -	2
Total hours - - - - - 18		Total hours - - - - - 18	

(NOTE:—Provision is made for students who can present two years standard college work and yet have not had sufficient Home Economics to carry junior work in this subject. No course will be given unless at least five students apply for it).

The student who includes physics in her 15 units of high school work may offer only one and one-half hours physics for entrance to the junior class.

Normal school graduates upon presenting satisfactory evidence of completion of courses in education may receive advanced standing for such courses to the extent of three credit hours.

The applicant must further show sufficient maturity and ability to do the required work and this ability must be demonstrated during first half of the junior year. The qualifications of students will be measured not only by formal academic requirements but also by personality, individual poise and attitude toward the work undertaken.

Especial emphasis will be placed upon the student's ability to express herself orally and in writing in clear, fluent and correct English.

Courses Offered. The courses offered are professional in character and lead to the degree of Bachelor of Science in Home Economics. Students qualifying for this degree will be required to take 36 hours in the junior and senior years, 12 hours of which must be in Home Economics. The division of time in junior and senior years shall be as follows:

Home Demonstration Work		Vocational Home Economics	
	Hrs.		Hrs.
Major _ _ _ _ _	12	Major _ _ _ _ _	12
Minor, Group 1 _ _ _ _ _	6	Minor, Group 1 _ _ _ _ _	6
Minor, Group 2 _ _ _ _ _	6	Minor, Group 2 _ _ _ _ _	—
Minor, Group 3 _ _ _ _ _	6	Minor, Group 3 _ _ _ _ _	9
Gen. Elective _ _ _ _ _	6	Gen. Elective _ _ _ _ _	9
	—		—
	36		36
Group 1		Group 2	Group 3
Chemistry		Horticulture	History
Botany		Agronomy	Education
Zoölogy		Poultry	English
Bacteriology		Dairying	Economics
Physiology		Plant Pathology	Sociology

At the beginning of the junior year the student must submit a program written on a prescribed form for the schedule of work in the junior and senior years showing her majors

and minors, as well as her general electives. This program must be approved by the head of the division in which she takes her major.

The student's program may include college credit courses offered in the Summer School.

Vocational Courses

The teacher training course in Vocational Home Economics consists of four years totaling 72 hours as now required for the B.S. degree. Under the requirements of the State Vocational Board such a course will be required of students qualifying to teach Vocational Home Economics after 1921.

The division of time in the four years shall be as follows:

	Per Cent.
Home Economics, technical -----	25-35
Related Science and Arts -----	25-25
Professional -----	18-15
Humanistic -----	22-25

Suggested Vocational Course

Junior	Hrs.	Senior	Hrs.
*Education - - - - -	3	Home Economics 31 - - - -	1½
(a) Sociology 5a, 9a - 2		Practice Teaching - - - -	1½
(b) Voc. 54 - - - - -	1	Home Economics 12, 13 -	3
Ag. Chemistry 1 - - - - -	3	Home Economics 46 - - - -	3
Bacteriology 1 and 5 - - -	3	Home Economics 40 - - - -	2
Home Economics 5, 8, 55 -	3	Biological Problems - - -	1
Home Economics 45 - - - -	1½	English - - - - -	3
Home Economics 53 - - - -	1½	Electives - - - - -	3
Home Economics 32 - - - -	3		
	<hr/>		<hr/>
	18		18

There will be required a minimum of one semester practice teaching in the senior year. Graduates of a two years' normal school course and successful teachers after doing sufficient practice teaching to show the degree of skill possessed may be given credit for previous work.

(* NOTE:—Students who have not had History of Education and Principles of Teaching will be required to take three hours of such work before being permitted to do practice teaching in the senior year).

The progressive teacher of Vocational Home Economics should elect some courses in agriculture which have special bearing upon the work of women in the home.

The course suggested for students preparing to become county agents in Home Demonstration Work includes work in agriculture and home Economics with carefully related science and is planned to give the scientific and technical training needed in this work.

Suggested Course for County Agents

Junior		Senior	
Bacteriology 1 and 5	- - - - 3	Animal Husbandry 16	- - - - 1½
Ag. Chemistry 1	- - - - - 3	Poultry Husb. 1a, 1b	- - - - 2
Horticulture 20, 21, 22	- - - - 3	Horticulture 10	- - - - - 1
Home Economics 5, 8, and 9	3	English 5	- - - - - 3
Sociology 5a and 9a	- - - - - 2	Home Economics 31	- - - - - 1½
Home Economics 44 or 51	- 1	Home Economics 40	- - - - - 2
Home Economics 32	- - - - - 3	Home Economics 12, 13	- 3
		Biological Problems	- - - - 1
		Electives	- - - - - 3

Total hours - - - - - 18

Total hours - - - - - 18

The student who does not expect to teach or do other public work but desires preparation for home making may substitute both in entrance and in residence requirements other courses than those in education provided she offers three credit hours in psychology.

FOODS AND COOKERY GROUP

1a. **Food Study and Cookery.** Offered for students who have had two years academic training in college but who have had little or no work in Home Economics; composition, selection and cookery of typical foods, to give a working knowledge of the principles underlying food preparation. One lecture and recitation, two laboratory periods, first half-year. Sophomore credit, one and one-half hours. Prerequisite, General Chemistry. Fee, \$3.50. *Miss Boggess.*

1b. **Home Cookery and Table Service.** Follows Home Economics 1a. Required of students desiring entrance to junior class who have not had the required amount of work with foods. Practice in the manipulation of foods in family sized quantities; practice in planning, preparing and serving breakfasts, dinners, luncheons, sup-

pers. One lecture and recitation, two laboratory periods, second half-year. Sophomore credit, one and one-half hours. Prerequisites, Home Economics 1a. Physiology may parallel if student is not offering physiology for junior entrance. Fee, \$3.50. *Miss Boggess.*

Physiology. This course is provided for those desiring the required physiology for entrance to junior class. It deals with the structure and function of the human organs of digestion, absorption, circulation, respiration, metabolism and excretion, etc., and presents personal hygiene as a means of maintaining health. Two lectures and recitations, one laboratory period. Sophomore credit, one and one-half hours, second half-year. Prerequisites, General Biology, General Chemistry. Fee, \$2.50.

5. Food Preservation. Advanced canning of fruits and vegetables in glass and tin; standardization of products; use of water bath, steam pressure canner, thermometer, saccharometer and other apparatus for securing accuracy in home and community canning; drying fruits, vegetables and herbs; making fruit juices, syrups, pastes; extraction of pectin, and jelly making; preserving. Junior, first term; one lecture and two laboratory periods for half term. Credit, one-half hour. Fee, \$2.50.

6. Food Preservation. Preserving and crystallizing fruits; fermentation of vegetables including sauer kraut, cucumber and chayote dill pickles; salt brining of cucumbers; finishing pickles from salt stock; vinegar making from peaches, apples, pears, ngs, grapes; canning and curing meats. Senior, first term. One lecture and two laboratory periods. Credit, one hour. Prerequisites, Bacteriology, 1 and 5. Fee, \$3.50.

8. Dietary Problems. A survey of Georgia food materials and the dietary habits of the people to give basis for constructive work in applying the principles of cookery previously gained to the proper utilization of foods available in the average rural home; planning and preparing food combinations which will meet approved dietary standards for children and adults, and which can be duplicated under existing conditions. Special attention to child diet and the school lunch. Some experimental cookery included. One lecture and recitation, two laboratory periods; junior, first and second terms following 5. Credit, one and one-half hours. Prerequisites, Physiology, Elementary Food Study and Cookery. Fee, \$3.50. *Miss Proctor.*

9. Demonstration Cookery. An advanced course with problems selected from the general field of food preparation. Special emphasis placed upon skillful manipulation and clear presentation of the subject. Spring term, juniors or seniors. One lecture and two laboratories. Prerequisites, same as for 8. Credit, one hour. Fee, \$3.50.

10a, 10b, 10c. **Institutional Cooking and Management.** Plans for organization and equipment of institution kitchens, dining rooms, lunch rooms; practical work in marketing, cooking, serving; catering for special occasions. Junior or senior. Prerequisite, college courses in cooking and food study required for junior entrance. Fall, winter, spring. Credit, three hours. Three laboratory periods. Fee, \$2.50 per term. *Miss Boggess.*

12. **Nutrition.** A study of the fundamental principles of human nutrition including the function and nutritive properties of the food principles; energy values of foods; the chemistry and physiology of digestion and metabolism. Senior, first half-year. Two laboratories and one lecture. Credit, one and one-half hours. Prerequisite, Organic and Food Chemistry; Physiology; Bacteriology. Fee, \$3.50. *Miss Proctor.*

13. **Dietetics.** Knowledge previously gained in cooking, food study chemistry, physiology and bacteriology summarized and applied to the problems of feeding individuals of varying ages and conditions and of families and other groups. Topics of study include nutritive requirements for individuals considering age, sex, occupation, health and disease; relative cost of foods; dietary calculations. Seniors, second half-year. Two laboratory periods and one lecture. Credit, one and one-half hours. Prerequisites, Organic Chemistry; Chemistry of Foods, Physiology; Bacteriology 1 and 5. Fee, \$3.50. *Miss Proctor.*

TEXTILES AND CLOTHING GROUP

20. **Garment Making.** The fundamentals of sewing, hand and machine; reading and using commercial patterns, simple decoration for garments; the mechanism of single and double thread machine; study of factory production of garments and economics governing it; study of social questions involved. One and one-half hours freshman credit, first half-year. Fee, \$3.50.

21. **Elementary Dressmaking.** The fundamentals of dressmaking; simple designs and decoration; reading, testing, use and alterations of commercial patterns; applications on both cotton and woollen in simple dresses, etc.; a study of the clothing budget. One and one-half hours freshman credit, second half-year. Fee, \$3.50.

22. (See Summer School Courses).

23. **Pattern Designing.** Making plain foundation waist and skirt patterns, fitting and altering patterns and making original designs, using plain foundation patterns; a study of different type figures and pattern designing for them. One hour sophomore credit. Fee, \$3.50.

27. **Home Economics: Textiles.** Materials which are used for clothes and furnishings will be studied for the purpose of becoming familiar with the different standard fabrics, their quality, value,

and uses, the manufacturing processes which influence these, and the relation of clothing materials to health of the family. The practical work includes tests for differentiation of fibres and weaves, and for adulterations, and for the effects of different reagents used in removing common household stains. First semester, one and one-half hours. Fee, \$3.50.

31. Costume Design. This course deals with the problems of teaching women at home how to design clothes for different types of people for all occasions. The problems will include the use of color and color combination, the effect of different textures, etc. Senior, first semester. One and one-half hours credit. Prerequisite, Home Economics 32. Fee, \$3.50.

32. Dressmaking and Millinery. The advanced technique of construction and how to teach it to groups of vocational, home-making students. The problems will be selected with particular reference to those of a teacher of vocational classes, such as making flat, draped and modeled patterns from original designs and pictures, and treatments to secure the most finished garments. In millinery simple shapes, alteration of shapes and different types of decoration will be considered. Junior. Three hours credit. Prerequisite, Sewing and Elementary Dressmaking. Fee, \$3.50. *Miss Rathbone.*

HOME ADMINISTRATION GROUP

40. Health: Vocational Home-Making Relationships. (a) Personal hygiene, child and adult; illness, preventive and curative measures in the home. (b) Community hygiene. Senior fall and winter terms. Two hours credit. *Misses Proctor and Campbell.*

41. Biological Problems of Childhood and Social Life. This course will include a study of genetics, of child development and of the biological problems which are involved in the training of children and in the intimate social relations. Senior, spring term. One hour credit.

44. House Furnishing and Decoration. Application of principles of design and color to house furnishings, to finishes for walls and floors, selection and arrangement of rugs, draperies, and furniture with view to beauty, economy and the sanitary needs of the modern house. Lecture, readings, lantern slides, trips to shops, and study of materials. Junior, spring term. Credit, one hour.

45. Home Economics: Home Designing and Furnishing. The location, structure and structural sanitation will be considered in designing homes for typical families. This will be followed by a study of artistic furnishings and decoration possible for families of different incomes and in different location. The problems will be based upon how to teach this to home-makers. Junior, first semester. One and one-half hours credit. *Miss Rathbone.*

46. Home Equipment and Management. Treated from vocational standpoint including the following topics:

(a) Economics of household and of household purchasing. (b) Organization of work. (c) Sanitation, care and renovation. Senior. Credit, three hours. *Miss Campbell and Miss Rathbone.*

EDUCATION GROUP

51. Organization of Home Demonstration Work. Survey of conditions, social and economic, which this work is to meet; factors and forces in county and community to be recognized and used; conducting home demonstrations in various activities; methods of organizing girls and women; use of the demonstration lecture, exhibits, charts, models, and other means and materials of instruction; organization for production, standardization, marketing; social outgrowths; development of community fairs; recreation and dramatic expression; study of material from original sources and field trips to observe and take part in actual work. Junior, spring term. Three lectures and recitation. Credit, one hour.

52. Organization of Home Demonstration Work. Continuation of Course 51. Senior, winter term. Credit, one hour.

53. History and Development of Education in Home Economics. This course includes a survey of the development of home economics in education; its place in the education of young women with special stress upon home making as a vocation. A study will be made of the social and economic importance of home economics and of the influence of vocational education upon it. Junior or senior. Lecture second semester. Credit, one and one-half hours. *Miss Proctor.*

54. Methods and Materials in Vocational Home Economics. Different vocational courses will be studied with reference to the content, time allotment, and adaptation to demand for such. Types of materials, teaching, and equipment will also be considered. Junior, spring term. Credit, one hour. *Miss Rathbone.*

55. Teaching Foods and Cookery in Vocational Schools. This course includes a survey of the present status of the teaching of foods and cookery in secondary schools; an analysis of the essential elements to be considered in standardizing courses of study for vocational classes; a study of the influence of the community on the work; surveys of communities leading to the organization of courses of study; a study of methods of presentation of subject matter, etc. Junior, two lectures, one laboratory. Spring term. Credit, one hour. Fee, \$2.00. *Miss Proctor.*

***WINTER SHORT COURSES**

A short course of three months is offered in which students qualifying for junior work can receive college credit for a term's work. This course is planned especially to aid the county agent who desires advanced work but can be absent from her work for a limited period of time.

7. Readings in Food and Nutrition. To give the student an opportunity to become familiar with the results of modern investigation in food preservation and nutrition. The work will include lectures, readings and reports on certain deficiency diseases such as scurvy, pellagra, and rickets; neuritic and anti-scorbutic properties of food. Six recitations a week. Credit, one hour. *Miss Proctor.*

14. Work with Batters and Doughs. A scientific study of batters and doughs including popovers, griddle cakes, muffins, biscuits, bread, cakes and pastries. The leavening agents are studied in regard to composition, reactions, and residues. Various fats and flours will be tested out, showing the difference in quality, quantity and cost, thus giving opportunity for experimental work. The lectures involve food study, daily dietaries, protein and mineral requirements, and malnutrition of children. The products will be used in the College cafeteria. Three lectures. Three laboratories and two lectures per week. Credit, one hour. *Miss Boggess.*

56. Demonstration in Clothing. The study of special methods in presenting lectures and demonstrations in clothing and related fields. Single lessons and series will be planned for different types of classes and groups of people. The typical illustrative material will be worked up to use in such classes. Credit, one hour. *Miss Rathbone.*

Other courses are published in the yearly Short Course Bulletin. College credit courses are also offered in the Summer School.

* Write for special pamphlet.

DOCTOR OF VETERINARY MEDICINE

W. M. BURSON, Professor.

J. E. SEVERIN, Associate Professor.

W. C. BURKHART, Associate Professor.

LOUIS H. WRIGHT, Associate Professor.

— — — — —, Adjunct Professor.

A four year course in veterinary medicine leading to the degree of Doctor of Veterinary Medicine (D.V.M.) is offered. The demand for veterinarians is increasing in the southern states and there has been a general decrease in attendance at veterinary colleges throughout the country during recent years. There are excellent opportunities in the field of veterinary medicine at the present time.

OUTLINE OF COURSE

Freshman		Sophomore	
Subject	Hours	Subject	Hours
Anatomy 1, 2 - - - - -	6	Anatomy 3, 4 - - - - -	6
Animal Husbandry 2, 3, 4, 5	3	Anatomy 6 (Embryology) -	1
Chemistry 1 - - - - -	3	Animal Husb. 8a and 9a - -	3
English - - - - -	3	Bacteriology 1 and 2 - - -	3
Anatomy 5 - - - - -	2	Biology 3 - - - - -	3
Vet. Physiology 1 - - - - -	3	Agri. Chemistry 1 (Organic)	3
	—	Vet. Physiology 2 - - - - -	2
Veterinary subjects - - - -	20		—
Military Science - - - - -	1	Veterinary subjects - - - -	21
	—	Military Science - - - - -	3
Total for course - - - - -	21		—
Junior		Senior	
Subject	Hrs.	Subject	Hours
Infectious Diseases - - - -	3	Diseases & Surgery, Sm. An. -	3
Pathology 1 - - - - -	3	Special Surgery - - - - -	3
Surgery 1 - - - - -	3	Pathology 2 - - - - -	3
Pharmacy 1 - - - - -	1	Non-infectious Diseases - -	3
Materia Medica 2 - - - - -	2	Pathology 3, (Food Insp'n.) -	2
Therapeutics - - - - -	1	Ophthalmology - - - - -	1
Physical Diagnosis - - - - -	1	Obstetrics - - - - -	2
Clinics - - - - -	3	Clinics - - - - -	3
Horseshoeing - - - - -	1	Jurisprudence - - - - -	1
Parasitology - - - - -	2		—
	—	Veterinary Subjects - - - -	21
Veterinary subjects - - - -	20	Military Science - - - - -	3
Military Science - - - - -	3		—
Total for course - - - - -	23	Total for course - - - - -	24
Elective in Junior and Senior Years			
Subject	Hours		
Serum Therapy, (Bacteriology 4) - - - - -	2		
Dairy Bacteriology, Bacteriology 3) - - - - -	1½		

COMPARATIVE ANATOMY

DR. J. E. SEVERIN.

Anatomy, being the basic subject of all medical science, must receive careful attention at the hands of all students. The subject is taught by means of lectures, recitations, demonstrations and dissections. All cadavers used are preserved by the intravascular injection of formalin, thus facilitating the work and eliminating the possibility of putrefaction and infection. The work given is divided in the following manner:

Anatomy 1: Osteology and Arthrology. This consists in the study of the bones and joints. Drawings are made by each student in order that he may have a good mental picture of the shapes and characteristic parts. Freshmen. First term. Three lectures and three two-hour laboratory periods per week. Fee for this and the following course, \$10.00.

Anatomy 2: Myology and Splanchnology. The study of the muscles and viscera. The student is required to make a complete dissection of the horse, paying particular attention to the above structures. Prerequisite, Anatomy 1. Freshmen. Second and third terms. Three lectures and three two-hour laboratory periods per week.

Anatomy 3: Angiology and Neurology. The study of the organs of circulation and the nervous system. The cadavers used as mentioned above and the arterial system is injected with a suitable mass. Prerequisite, Anatomy 1 and 2. Sophomore. First and second terms. Three lectures and three two-hour laboratory periods per week. Fee for this and the following course, \$10.00.

Anatomy 4: Comparative Anatomy. Consists of the study of the variations in form and structure of corresponding organs and parts of the various domestic animals. Dissections of the hog, ox and dog will be made sufficient to differentiate various features in these animals compared to the horse. Prerequisite, Anatomy 1, 2 and 3. Sophomores. Third term. Three lectures and three two-hour laboratory periods per week.

Throughout the course given thus far the student's attention is continually called to those aspects of anatomy most directly related to diagnosis and surgical procedure. Text, "Anatomy of the Domesticated Animals," Sisson.

HISTOLOGY

DR. LOUIS H. WRIGHT.

Anatomy 5: Histology. A study of the microscopic structure of animal tissues. Students study the tissues under the microscope and are required to be able to recognize specimens of all tissues. The preparation and mounting of sections will be taken up if time

permits. Freshmen. Text, "Histology and Organography," Hill. First and second terms. One lecture and two two-hour laboratory periods per week. Fee, \$3.50.

EMBRYOLOGY

DR. LOUIS H. WRIGHT.

Anatomy 6: Embryology. A study of reproduction and the development of the embryo. Prerequisite, Anatomy 1, 2 and 5 and Physiology 1. Sophomores. First term. Fee, \$2.00.

VETERINARY PHYSIOLOGY

DR. W. M. BURSON.

Veterinary Physiology 1. A study of the normal functions of the animal body. Course 1 embraces a study of respiration, circulation, digestion, assimilation, excretion and secretion. It consists of lectures, recitations, demonstrations and laboratory work. Charts, models, appliances and animals are used as illustrative materials. Text, "Veterinary Physiology," Smith. Freshmen. Entire year. Two class periods and one two-hour laboratory period per week.

Veterinary Physiology 2. The physiology of the nervous system, enervation, locomotion, generation and development. Prerequisite, Physiology 1 and Anatomy 1 and 2. Sophomores. First and second terms.

BACTERIOLOGY

DR. W. C. BURKHART.

1. **General Bacteriology.** This course is designed to give the student a conception of the activities of bacteria. It treats of the biological, physiological and morphological features of bacteria. Laboratory work consists of the preparation of media, the making of cultures, staining methods and the study of the physiological activities of bacteria. One lecture and recitation and two two-hour laboratory periods per week, first half-year. Sophomores in Veterinary Degree Course. Fee, \$3.50; breakage fee, \$5.00.

2. **Pathogenic Bacteriology.** A study of the pathogenic bacteria, e. g., pus cocci, tuberculosis, glanders, anthrax and tetanus. The work consists of the observation of the cultural characteristic and the study of the pathogenic significance of the organisms; the methods of bacteriological diagnosis, such as isolation and agglutination and the means of treatment by the use of vaccines and anti-serums. Prerequisite, Bacteriology 1. Sophomore veterinary students. Last half-year. One lecture and recitation and two two-hour laboratory periods per week. Fee, \$3.50; breakage fee, \$5.00.

3. **Dairy Bacteriology.** (See description on page 58).

4. **Serum Therapy.** A detailed study of infection and theories of

immunity. The various paths of entrance and elimination of infection into and from the body are fully discussed. The general question of anti-body formation will be carefully considered. The various types of therapy ((serum, vaccine, chemo) will be studied. The work will also include a consideration of the various infectious diseases and the relationship of immunity and serum therapy. Prerequisite, Bacteriology 1 and 2. Juniors or seniors in Veterinary Degree Course. One lecture and recitation and two two-hour laboratory periods per week. Lecture and laboratory courses. Credit for lecture course, one hour. Complete course, three hours. Fee, \$3.50; breakage fee, \$5.00.

PHARMACY AND MATERIA MEDICA

PROFESSOR R. C. WILSON.

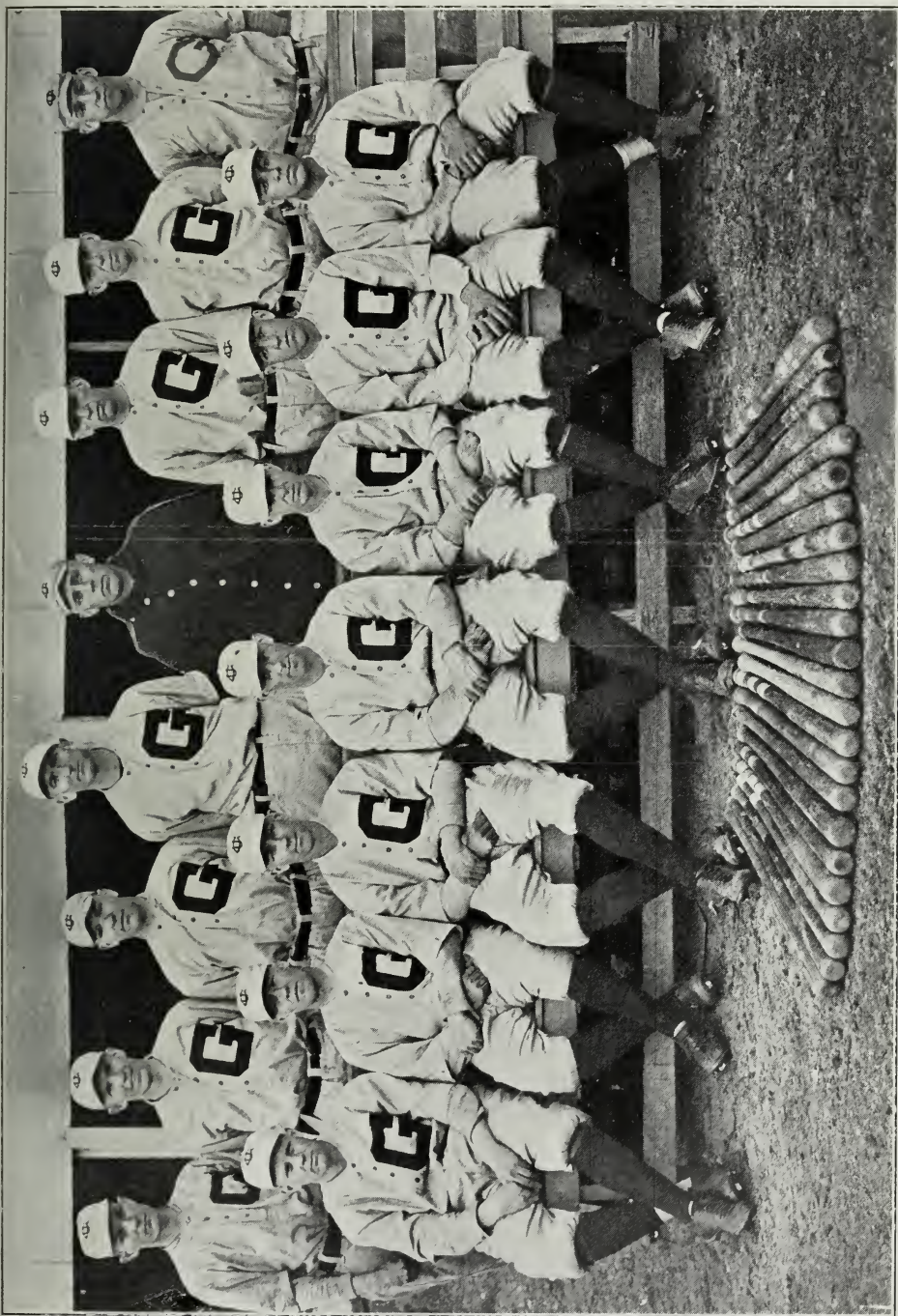
Course 1, Pharmacy. This course is preliminary to the study of Materia Medica and embraces a study of the various systems of weights and measures, methods of conversion from one system to another, various problems of concentration and dilution, dosage, and the construction of the prescription from an arithmetical point of view. The various pharmaceutical processes such as sublimation, distillation, evaporation and percolation are considered and also the various groups of pharmaceutical preparations including waters, spirits, tinctures, fluidextracts, extracts, ointments, liniments, etc. Some of each type will be made and their physical and chemical properties considered as well as their keeping properties, incompatibilities, etc. Juniors in Veterinary Degree Course. Three hours per week, first term.

Course 2. Materia Medica. This course will embrace the study of the physical and chemical and general therapeutical actions of drugs from the vegetable, animal and mineral kingdoms. Attention is given to the occurrence, active constituents, solvents, and other interesting peculiarities of individual drugs. Of the very large list of drugs an effort will be made to select those most important in veterinary practice, particularly those native to this section. The student acquires a knowledge of the U. S. Pharmacopoeia and National Formulary, both of which are recognized as legal standards. Prerequisite, Course 1. Juniors in Veterinary Degree Course. Three hours per week, second and third terms.

VETERINARY THERAPEUTICS

DR. LOUIS H. WRIGHT.

Veterinary Therapeutics. This course is to be considered a continuation of the work in Pharmacy and Materia Medica, and is devoted to the study and instruction in the uses of drugs on the various organs and parts of the body in the treatment of the various



The team which beat the University of Pittsburgh two straight games, one of which was a shutout with no hits.



"Georgia" expects to have a good football team this fall. Stegeman of the University of Chicago will coach the line and De Hart of the University of Pittsburg will coach the backfield. Both of these men won their "letters" in football, baseball, basketball and track while in college. The captain of the team is "Bum" Day, all-American center and a Junior in the Agricultural College.

diseases of farm animals. Prerequisite, courses in Pharmacy and Materia Medica. Students who have completed the work of the first and second terms of the above-mentioned courses may take this work in the third term. Texts, "Veterinary Pharmacology and Therapeutics," Milks; and "Veterinary Materia Medica and Therapeutics," Winslow. Juniors in Veterinary Degree Course. Three hours per week, third term.

PATHOLOGY

DR. W. M. BURSON.

1. **General Pathology.** A course of lectures and recitations in the subject of general pathology. The cause of disease, pathological phenomena in general, inflammation, fever, the protective and reparative processes of the body, retrogressive disturbances and infiltrations, hypertrophy and tumor formations are considered. All departures from normal and physiological conditions receive the attention necessary to familiarize the student with the subject. Prerequisites, Physiology 1-2, Anatomy 5, and Bacteriology 1-2. Three lectures and recitations per week. Juniors.

2. **Special Pathology. Autopsies and Laboratory Diagnosis.** A consideration of pathological conditions of the various organs and parts of the body, preparation, examination and identification of pathological specimens under the microscope constitute the greater part of the work. Autopsies of all animals that die in the hospital and such other autopsies as may be available for diagnostic purposes will be conducted by the students under the supervision of the professor in charge of the subject. Prerequisite, Pathology 1. Lectures, laboratory work and autopsies. Three credit hours per week. Senior year. Laboratory fee, \$7.50.

3. **Food Inspection.** A course designed to cover in a broad way the subject of food inspection as it concerns meat and milk inspection. Based in a general way on the requirements of the Federal Meat Inspection Law, but taking also into consideration these subjects as applicable to municipalities and rural districts. The purpose in view being to prepare students for efficient work along food inspection lines. Sanitary construction of abattoirs, dairy barns and milk houses receive attention. Post-mortem examinations of meat producing animals will be conducted. Visits to slaughtering establishments and dairies will be made. Tests of milk and bacterial examinations will receive attention. Prerequisites, as for Pathology 2. Seniors. Two lectures and one two-hour laboratory period per week. Second and third terms. Text, "Meat Hygiene," Mohler & Eichhorn; "Milk Hygiene," Ernst. *Dr. W. M. Burson.*

4. **Parasitology.** A study of the animal parasites infesting farm animals and fowls. Classification, life history, means of propaga-

tion, identification, diseased condition produced by infestation, methods of control and eradication will be considered. Juniors. Second and third terms. Two lectures and one two-hour laboratory period per week. Fee, \$3.50. Text, "Animal Parasites," Kaupp. *Dr. W. M. Burson.*

COMPARATIVE MEDICINE

DR. W. C. BURKHART.

1. **Infectious Diseases.** In this course the various infectious diseases of animals are studied. These are taken up in a systematic manner and consideration is given to prevalence, etiology, symptomatology, anatomical alterations, treatment, control and eradication. In connection with this course clinics will be conducted at which students will be trained in diagnosis and therapeutics. Juniors. Three hours of lectures and recitations per week. Entire year. No fee.

2. **Non-Infection Diseases.** All the diseases not classed as infectious and which affect the domestic animals will be considered in this course. The various organs of the body will be studied with reference to the diseases affecting them. Comparisons will be made of the various diseases as they affect the various species of animals. Students will be required to take the course in Clinics, to diagnose and administer treatment and to keep records of lectures and clinics. Prerequisites, Infectious Diseases. Seniors. Three hours of lectures and recitations per week. No fee.

SURGERY

DR. J. E. SEVERIN.

1. **General Surgery.** In this course wound dressing, suturing, local and general anaesthetics, asepsis and surgical procedure in general are studied. Diseases of bones, muscles, nerves and other important structures receive consideration. Special attention is given to hernias, fractures, concrements and neoplasms. Juniors. Three hours of lectures and recitations per week, entire year. Text, "Veterinary Surgery," Moeller by Dollars; "Veterinary Surgery," Merillat.

2. **Special Surgery.** A consideration of the surgical diseases of the various regions of the body. The work is discussed in detail in lectures and recitations. Following this the students will be required to perform at least all of the common operations, under the guidance of the instructor, upon subjects anesthetized especially for the occasion. Dentistry and lameness are included in this course. Seniors. Three hours per week of lectures, recitations and laboratory exercises per week, entire year. Fee, \$3.50.

Clinics. Daily clinics will be held at the hospital, and junior and

senior students will be assigned to the care of patients and required to diagnose cases and to recommend and administer treatment under the supervision of the professor in charge and to assist at all operations. Juniors and seniors. Two hours daily. Three hours credit. Entire year. No fee. No text required.

Physical Diagnosis. A course closely related to the courses in diseases, surgery and clinics. A systematic study of the methods used to recognize or identify disease in the living animal. Juniors. Three hours per week of lectures and demonstrations for one term. One hour credit.

Horseshoeing. A special study of the foot of the horse, its abnormalities and diseases and the methods of shoeing and balancing used to overcome the evil conditions. Juniors. Three hours of lectures, recitations and demonstrations per week for one term. No fee.

Diseases and Surgery of Small Animals. In this course the diseases of the dog, cat and poultry, infectious, non-infectious and the operations practiced upon them will be studied in detail. With respect to infectious diseases, methods of prevention, control and eradication will be stressed. Seniors. Lectures, clinics and surgical exercises constitute the course. Students will be placed in charge of small animals in the hospital and held responsible for care and treatment. Three hours per week, entire year. No fee.

Ophthalmology. A study of the eye and its appendages, together with a study of the diseases, accidents, abnormalities and other injuries to which it is subject. Treatment of eye diseases, and surgical procedure receive the necessary attention. Seniors. Three hours per week of lectures, recitations, clinics and demonstrations and surgical exercises for one term.

Obstetrics. A course of study in the anatomy and physiology of the organs of reproduction of the female, the diseases incident to pregnancy and parturition and diseases of new born animals. Seniors. Lectures, demonstrations and clinics constitute the work of the course. Three hours per week for two terms. No fee.

VETERINARY JURISPRUDENCE

SYLVANUS MORRIS, Professor of Law.

Dean of the Law School.

A course of lectures on law as it applies to the veterinarian as a practitioner, as an official of the government, state and municipality; his rights and liabilities and his responsibilities as a professional man. Legal principles, federal, state and municipal laws, acts and ordinances affecting the veterinarian receive the necessary attention. Seniors. Three hours per week, one term.

(NOTE:—For description of courses in Animal Husbandry, Biology, Chemistry and English consult the various departmental descriptions).

SIX-YEAR COURSE IN AGRICULTURE AND VETERINARY MEDICINE

On account of the demand and need for a combined course in Agriculture and Veterinary Medicine and the many opportunities open for men trained in both subjects we are offering a six-year course leading to the degrees of B.S.A. and D.V.M. Men who take this combined course are especially well fitted to become managers of large stock farms and plantations and to occupy positions as field veterinarians in educational and experimental work and for investigational and experimental work in connection with experiment stations and other establishments where such work is conducted.

Freshman		Sophomore	
	Hrs.		Hrs.
Agronomy (Farm Crops 1) - - - -	2	An. Husbandry 2, 3, 4, 5 - - - -	3
Animal Husbandry 1 - - - -	1	Agronomy (Soil Physics 1) - - - -	3
Agri. Eng. 1, 2, 3, 4, 5 - - - -	3	Agr. Chemistry 2b - - - -	3
Chemistry 1 - - - -	3	English 2 - - - -	3
English 1 - - - -	3	History 4a or Econ. 5 - - - -	3
Horticulture 1, 2, 3 - - - -	3	Physics 2 - - - -	3
Mathematics 1, 2 - - - -	3	Botany 1 - - - -	2
Poultry Husbandry - - - -	1		
Military Science - - - -	1		
	20		21
Junior Agr. & Vet. Freshman		Senior Agr. & Vet. Sophomore	
	Hrs.		Hrs.
Agronomy (Farm Eco. 2) - - - -	3	An. Husbandry 8, 9, 14 - - - -	6
Ag. Chemistry (Organic) - - - -	3	Agronomy (Farm Crops 2) - - - -	1½
An. Husbandry 6, 7 - - - -	3	Anatomy 3, 4, 6 - - - -	7
Anatomy 1, 2 5 - - - -	8	Bacteriology 2 - - - -	1½
Bacteriology 1 - - - -	1½	Vet. Physiology 2 - - - -	2
Horticulture 13 - - - -	1½	Biology 3 (Zoology) - - - -	3
Vet. Physiology 1 - - - -	3		
	23		21
Junior Veterinary		Senior Veterinary	
	Hrs.		Hrs.
Clinics - - - -	3	Clinics - - - -	3
Horseshoeing - - - -	1	Diseases and Surg. Sm. An. - - - -	3
Infectious Diseases 1 - - - -	3	Food Inspection - - - -	2
Materia Medica - - - -	2	Jurisprudence - - - -	1
Pharmacy - - - -	1	Non-infections Diseases - - - -	3
Pathology 1 - - - -	3	Sn. Path. and Lab. Diag. - - - -	3
Physical Diagnosis - - - -	1	Surgery 2 - - - -	3
Parasitology - - - -	2	Obstetrics - - - -	2
Surgery 1 - - - -	3	Ophthalmology - - - -	1
Therapeutics - - - -	1		
	20		21

Electives

Bacteriology 3, one and one-half hours; juniors and seniors.
Bacteriology 4, one and one-half hours, juniors and seniors.

(NOTE:—The above is a tentative outline with respect to the agricultural subjects included in the course. Considerable latitude in the selection of these subjects will be permitted, the major portion, however, must be along the lines of Animal Husbandry and General Agriculture. No latitude is permitted with respect to the veterinary subject).

(NOTE:—The degree of B.S.A. (Bachelor of Science in Agriculture) is to be conferred at the completion of the fourth year. The degree of D.V.M. (Doctor of Veterinary Medicine) to be conferred upon the completion of the entire course).

Description of General Courses

BIOLOGY

J. M. READE, Professor of Botany; Director of the Laboratories.
JOS. KRAFKA, Jr., Associate Professor of Zoölogy.

PAUL WEATHERWAX, Associate Professor of Botany (Physiology and Genetics).

—, —, —, Assistant.

The biological departments are housed in LeConte Hall, named in honor of Professors Joseph and John LeConte, formerly of the University faculty. LeConte Hall is situated on the campus at the corner of Lumpkin and Broad streets.

The Museum is on the second floor. The collections include a display of Georgia birds, a display of types of plant and animal phyla, and the herbarium.

The Botanical Laboratories include a laboratory for advanced students, a bacteriological laboratory, a laboratory for cytology, and a small plant house on the roof. These are equipped with microscopes and accessories, sterilizers, incubators, culture room, microtome, photographic and photomicrographic outfits, weather instruments, transpirograph, and a full assortment of chemicals and glassware.

The Zoölogical Laboratories include a laboratory for advanced students and special laboratories for physiology and histology. These are suitably equipped with microscopes and accessories, microtome, paraffin bath, photomicrographic apparatus, and a full assortment of chemicals and glassware.

The building is also equipped with a beginners' laboratory, large, well-lighted, and suitably equipped with desks, lockers, and microscopes. There are large and small lecture rooms with blackboards and projection apparatus, photographic dark rooms, and several store rooms.

3. General Biology. Arranged in two complementary courses.

Introductory Plant Biology. Three recitations and two hours laboratory work per week for three terms. *Drs. Reade and Weatherwax.*

Introductory Animal Biology. Three recitations and two hours laboratory work per week for three terms. *Dr. Krafka.*

These are two closely coördinated but independently conducted courses. In substance the two are a unit. Neither is complete without the other. They are equally important.

The purpose of the courses is to present a general view of life phenomena and of life's laws. That involves the consideration of

both plants and animals. It cannot be presented from either alone.

Beside a consideration of materials the attempt is also to depict the biological frame of mind and method, to trace, in brief at least, the development of biological ideas and to picture their influence upon human affairs and progress. In these matters botanists, geologists, zoölogists have all contributed.

The two courses are offered together as a general introduction and a basis for work in any of the biological sciences or the biological arts and industries.

BOTANY

J. M. READE, Professor.

PAUL WEATHERWAX, Associate Professor.

(Physiology and Genetics).

—, —, —, Assistant.

3. Introductory Plant Biology. Three recitations and two hours laboratory work per week for three terms. *Drs. Reade and Weatherwax.*

***4. Morphology.** A comparative study in particular of the groups leading to a land flora. Two recitations and four hours laboratory work per week for three terms. Botany 3 is prerequisite. (Given in 1921-1922). *Dr. Weatherwax.*

5. Bacteria. One recitation and six hours of laboratory work per week for the first half-year. Botany 3 is prerequisite. *Dr. Reade.*

5a. Sanitation. One recitation and six hours of laboratory work per week for the second half-year. Botany 3 and 5 are prerequisite. *Dr. Reade.*

6. True Fungi. One recitation and six hours laboratory work per week for three terms. Botany 3 is prerequisite. *Dr. Reade.*

7. Phytopathology. Two recitations and four hours laboratory work per week for three terms. Botany 3 and 6 are prerequisite. *Dr. Reade.*

***9. Physiology.** One recitation and six hours laboratory work per week for three terms. Botany 3 is prerequisite. (Given in 1920-1921). *Dr. Weatherwax.*

11. Genetics. An introduction to the study of heredity. Three lectures or recitations per week for three terms. Either Botany 3 or Zoölogy 3 is prerequisite; students are advised to have had both. *Dr. Weatherwax.*

2. Local Flora. Practice in the recognition of common trees and herbs. Illustrated lectures on the classification of Angiosperms. Given only by special arrangement. *Dr. Reade.*

A. Plants. A course for one-year students in agriculture. Three recitations or demonstrations per week for one term. *Dr. Reade.*

B. Pharmaceutical Botany. Three recitations per week for one term.

* Courses 4 and 9 are given in alternate years.

CHEMISTRY

H. C. WHITE, Professor.

H. V. BLACK, Professor.

C. B. G. SWETLAND, Instructor.

The following courses are offered:

1. **Elementary Chemistry.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text, McPherson and Henderson, "Elementary Chemistry."

2. **Inorganic Chemistry; College Course.** Three hours per week of lectures and recitations and two laboratory periods, for three terms. Text, Newell, "Inorganic Chemistry."

CIVIL ENGINEERING

C. M. STRAHAN, Professor.

E. L. GRIGGS, Associate Professor.

A-1. **Elementary Surveying.** A course covering the use, care, and adjustment of surveying instruments, methods of surveying by chain alone, by compass, and by transit; the methods of platting and computing areas and volumes; the variation of the magnetic needle; problems in parting off and dividing lands; the use of the Y level and precise leveling; plane table and stadia surveying, and the use of the solar transit. Three hours per week. Texts, Breed and Hosmer's "Surveying." *Professor Griggs.*

B-1. **Materials of Construction.** A course of lectures and laboratory work covering the occurrence, preparation, and manufacture of the important structural materials, to-wit: lumber, its seasoning, inspection and preservative treatments; stone, natural and artificial, including brick, terra cotta, cements, concrete blocks, etc.; the metals, including cast iron, wrought iron, steel, copper, tin, lead, zinc, aluminum and alloys as used by engineers; uniting materials, covering limes, mortars, cements, bituminous binders, joinery, riveting, etc. First and second terms. The third term is given to foundations and masonry structures, the course being based on Baker's "Masonry Construction." Three hours per week. *Professor Strahan.*

B-2. **Railroad Engineering.** A course covering reconnaissance, preliminary and location surveys, curves, spirals, switches, etc., cross-sectioning, computations and estimates, railroad economics and the various other problems involved in the complete engineering of railways. Three hours per week. Text, Allen's "Railroad Curves and Earthwork." Lectures. *Professor Griggs.*

B-3. **Highway Engineering.** A course of lectures, laboratory and field problems covering the surveys, location, drainage, grading and surfacing of public highways and city streets. The preparation of maps, profiles and estimates. Paving methods and specifications.

Road finances, equipment and labor. Three hours per week. *Professor Griggs.*

ECONOMICS

H. A. INGHAM, Associate Professor.

1. **Economic Geography.** A comparative study of the present status of industry, commerce and industrial training of the principal countries of the world. The chief products and industries, the commercial and industrial centers, the distribution of population, the use and conservation of natural resources, and international trade are some of the topics considered. Open to freshmen and sophomores. First or second half of the year.

5. **Elementary Economics.** The laws of production, price, value, rent, interest and wages are applied to problems of business organization and public control. Some of these problems are money, credit, business cycles, banking, industrial corporations, railways, international trade and tariff policy, taxation and public expenditures, and labor and economic progress. This course is open to sophomores and upper classmen and should be taken prior to other courses in economics except Economics "1." On the approval of the professor, however, advanced courses may be taken contemporaneously with this course but not prior to it. Throughout the year.

6. **Money and Banking.** The introduction to this subject offered in Economics "5" is presumed. The scope includes the principles and a wide range of problems in money and banking. Commercial and agricultural credit is studied, and the present status and problems of bank control by the federal government and the states are considered. The Federal Reserve Act and the Rural Credit Act, and the administration of these acts are included. First half-year.

7. **Corporation Finance.** Similar principles and methods of financing apply to many corporations. These are considered, also a large collection of financial documents are studied in connection with problems of financial organization and practice. Second half-year.

8. **Transportation.** Transportation agencies are subject to a large amount of public control. In this course problems of such control are studied, also private administration of railways and other common carriers. First two terms.

9. **Trusts and Control of Industrial Corporations.** A study of the economics of large-scale production, and of the control exercised by the federal and state governments over large industrial corporations for the prevention of unfair competition. Third term.

11. **Markets and Marketing.** The general functions to be performed and the principles and methods involved in marketing the various agricultural products are studied. The latter part of the

course is devoted to the problems of the wholesaler and the retailer. Special attention is given to the problems of more economical systems of marketing.

15. Principles of Accounting. The purpose of this course is to give an insight to the fundamental principles of accounting and cost determination. Double and single entry book-keeping are studied the first term. The remainder of the year is devoted to a consideration of the general principles of accounting and their application to cost records, income records and financial statements.

Description of other courses may be found in the announcement of the School of Commerce.

ENGLISH

R. E. PARK, Professor.

S. V. SANFORD, Professor of English Language.

R. P. WALKER, Associate Professor.

JOHN D. WADE, Instructor.

A. The Elements of English. This course emphasizes business correspondence, a review of grammar, composition writing and the reading of selected classics. Required of one-year students in agriculture. Three hours a week.

1. Rhetoric. (a) A study of the fundamental principles of rhetoric, (b) their application to the problems of composition and (c) their application to the interpretation of literature. Weekly themes. Required of freshmen. Three hours a week. *Professor Park, Professor Sanford, Mr. Wade.*

2. English Literature. The principles of literary criticism and the practical application of these principles to masterpieces studied with reference to (a) elements of literature, (b) species of literature, (c) historical development. The object of this course is to give to the student a general view of the history and development of English literature, with detailed knowledge of certain periods. Throughout the course much attention will be devoted to the writing of essays as a means of training the student to appreciate and to express his appreciation of the literature studied. Required of sophomores. Three hours a week. *Professor Park, Mr. Wade.*

GEOLOGY

Vacant.*

1. General Geology. Three hours per week, second half-year. The course of instruction is at first a general one, embracing the study of the distinguishing properties of minerals and common rocks, the decay of rocks and the foundation of soils. Following this is a more extended course of structural, dynamical and historical geology.

* Temporarily in charge of the Professor of Chemistry.

HISTORY AND POLITICAL SCIENCE

J. H. T. McPHERSON, Professor.

W. O. PAYNE, Professor of English History.

E. M. COULTER, Associate Professor.

4a. **Economic History of Europe.** A survey of modern European history, agricultural, commercial, and industrial. Sophomores in B.S. Agriculture and B.S. Commerce. Three hours, throughout the year. *Professor Payne.*

MATHEMATICS

C. M. SNELLING, Professor.

R. P. STEPHENS, Professor.

*R. S. POND, Associate Professor.

D. F. BARROW, Associate Professor.

E. R. C. MILES, Instructor.

1. **Trigonometry.** A course in plane and spherical trigonometry. Three hours per week for the first half-year. Text, Hun & MacInnes. *Professors Snelling, Stephens, Pond, Barrow, and Mr. Miles.*

2. **Graphical Algebra.** This includes a study of coördinates, the plotting of curves, and the derivation of the equations of the straight line and the circle. Three hours per week for the second half-year. *Professors Snelling, Stephens, Pond, Barrow, and Mr. Miles.*

3. **Analysis.** The work of Course "2" is continued by the study of the equations of the conics and by an introduction to calculus. Three hours per week for the first half-year. *Professors Stephens, Pond, and Barrow.*

4. **Advanced Algebra.** The following topics are treated: mathematical induction, binominal theorem, complex numbers, determinants, theory of equations, partial fractions, series, and logarithms. Three hours per week for the second half-year. *Professors Stephens and Barrow.*

4a. **Insurance.** An elementary course in probabilities, series, and other topics in algebra and their application in the calculation of annuities, premiums, etc. Three hours per week the first half-year.

6. **Statistics.** Statistical method and theory; general methods of statistical investigation; application of probabilities to statistical data; graphical methods of presentation of statistics; correlation; variation. Three hours per week, second half-year. *Professor Barrow.*

* Resigned.

PHYSICS

L. L. HENDREN, Professor.

F. N. EGERTON, Jr., Associate Professor.

J. W. CANTRELL, Adjunct Professor.

The following course is offered for agricultural students. For other courses see the A. and M. College announcements.

2. **Elementary Physics.** A college course covering the elementary principles. In this course especial emphasis is laid upon the application of the principles of physics to practical life. Three hours per week recitation work and two hours per week laboratory work throughout the year. Required of all sophomore B.S. agricultural students and freshmen B.S. forestry students.

PSYCHOLOGY, PHILOSOPHY, AND EDUCATION

T. J. WOOFER, Dean.

J. S. STEWART, Professor.

A. S. EDWARDS, Professor.

C. J. HEATWOLE, Professor.

MARY D. LYNDON, Associate Professor.

Note:—The following courses are open to general election. For fuller description of these courses, see the subsequent announcement of the Peabody School of Education.

For Teachers Professional License, elect three courses in Education from 1-2, 3-7, 5-6, 9-10.

PSYCHOLOGY

1. **Elementary Psychology.** An introductory course covering the essentials of general and educational psychology. First half-year. *Professor Edwards.*

This may be followed by Psychology 3 or 7 the second half-year.

3. **Applied Psychology.** Topics will be selected each year, mainly, from the following, Psychology 1 or 5 being prerequisite:

3a. **Social and Business Psychology.** A brief review of social psychology and an application of psychological principles and mental tests to problems of advertising and salesmanship.

3b. **Legal and Vocational Psychology.** A study of psychological problems involved in law, everyday life, and vocational selection and guidance of employees.

3c. **Abnormal Psychology.** A brief survey of the facts of feeble-mindedness and idiocy, inherited and acquired mental diseases and defects, as amnesia, abulia, delusions, hysteria, dementia, and others. *Professor Edwards.*

5. **Principles of Psychology.** A systematic study of the adult normal mind. Three hours a week throughout the year with a two-

hour period of laboratory work. May be taken as a beginning course but not along with Psychology 1, and may be counted as a science in Group III. *Professor Edwards.*

6. Experimental Psychology. An advanced course of laboratory work and conferences, the equivalent of a four-hour credit throughout the year. Prerequisite, Psychology 1, or 5. May be counted as a science in Group III. *Professor Edwards.*

7. Advanced Educational Psychology. A study of mental development, adolescence, individual differences, experimental education, the learning process, educational and mental tests and measurements, supervised study, and other phases of psychology applied to education. Three hours a week, second year. *Professor Edwards.*

PHILOSOPHY

3. Ethics. A study of human conduct, and the moral aspects of present day problems of society, democracy, and human life generally. Three hours, first half-year. *Professor Hutchinson.*

4a. Logic. Both inductive and deductive.

4b. Introduction to Philosophy. Historical introduction, presenting the great thinkers, the movements of thought, the essentials of logic and selected studies. Three hours, second half-year. *Professor Hutchinson.*

7. Modern Philosophy. A survey of modern thought with special studies of ideals of life expressed in philosophical and literary classics. Three hours, the year. *Professor Hutchinson.*

9. Social Philosophy. Given with Sociology 9. Three hours, the year. *Professor Heatwole.*

26. Advanced History of Philosophy. A graduate course. See Graduate School. *Professor Hutchinson, Professor Walker.*

SOCIOLOGY

5. Social Evolution. An introduction to the study of society, through the approach of organic and social evolution; anthropology, heredity, morality, social organization, democracy, and other topics. Three hours, first half year. *Professor Woofter.*

6. Educational Sociology. Democracy the goal of social evolution; spirit of modern democracy; education the agency of social inheritance; education in a democracy; the evolution of the school; modern educational doctrine. Three hours, second half-year. *Professor Woofter.*

9. Theory and Principles of Sociology. An introductory course treating the more fundamental facts, place among social sciences, laws of social action, etc. Some of the main topics: social forces, social laws, social control, social mind, social origins and institutions, social pathology. Three hours, first half-year. *Professor Heatwole.*

10. **Functional and Applied Sociology.** A more complete and intensive study of some of the major social problems of the day, such as immigration, poverty and pauperism, criminology, city and country, race relationships, world organization. Second half-year. *Professor Heatwole.*

EDUCATION

1. **History of Education.** Tracing the influence of the past and examining modern theories and practices. Three hours, first half-year. *Associate Professor Lyndon.*

2. **The School as a Social Institution.** Its evolution, function in a democracy, types needed, etc. Three hours, second half-year. *Associate Professor Lyndon.*

3. **Principles of Teaching and Management: School Hygiene.** Three hours, first half-year. *Professor Heatwole.*

4. **High School Organization and Teaching.**

(a) Organization, General Management. One hour. *Professor Stewart.*

(b) Course of Study and Methods. One hour. *Professor Hutchinson.*

(c) Practicum in Schools. One hour. *Professor Hutchinson.*

5. **Social Evolution.** An introduction to the development and the organization of society and democracy. Three hours, first half-year. *Professor Woofter.*

6. **Educational Sociology.** A study of fundamental guiding principles of education in a democracy. Three hours, second half-year. *Professor Woofter.*

7. **Advanced Educational Psychology.** A study of mental development, adolescence, mental and educational tests and measurements, supervised study, the learning process, etc. Three hours, the year. *Professor Edwards.*

8. **Teaching Special Subjects:** English, History, Mathematics, etc.

9. **Education in the United States;** the needs of a democracy. Advanced educational history. Three hours, first half-year. *Professor Woofter.*

10. **The Administration and Supervision of Public Education.** Three hours, second half-year. *Professor Woofter.*

25. **Principles of Education:** Biological, Sociological, Psychological. Graduate course, Summer School.

ZOOLOGY

JOS. KRAFKA, Jr., Associate Professor.

—, —, —, Assistant.

3. **Introductory Animal Biology.** Three recitations and two hours laboratory work per week for three terms.

4. ***Vertebrate Morphology.** A comparative study of the various vertebrate types from a developmental and structural standpoint. Text, Kingsley's "Anatomy of the Vertebrates." Two recitations and four hours of laboratory work per week for three terms. Zoölogy 3 is prerequisite. Given in 1920-1921.

5. ***Histology and Embryology.** The first term is occupied with the histological study of the principal types of tissue; the second term with the early embryonic development of the frog; the third term with the advanced embryonic development of the chick. The student is required to make his own preparations for study. Two lectures and four hours laboratory work per week for three terms. Zoölogy 3 is prerequisite. Given in 1921-1922.

MASTER OF SCIENCE IN AGRICULTURE

A graduate course in agriculture is offered leading to the degree of Master of Science in Agriculture. A reputable baccalaureate degree is a prerequisite. The major and at least one minor must be elected from courses offered in the College of Agriculture. One minor may be chosen from graduate courses offered in other departments of the University. The choice of courses is subject to the approval of the professor in charge of the department in which the major course is selected.

Graduate work is offered in five courses by the College of Agriculture, in agronomy, agricultural chemistry, horticulture, animal husbandry, forestry, and agricultural education.

In agronomy stress is laid upon soil types of Georgia, improvement of seed corn, physical properties of soils, fertilizers.

In agricultural chemistry, special attention is given to agricultural chemical analysis, with select readings and laboratory work.

Graduate work in horticulture will be given in advanced pomology, with select readings upon plant breeding, origin of species, etc.

Animal husbandry graduate work will take up feeding tests with study of chemical and physiological changes in animal life.

Graduate work in agricultural education treats of the various educational problems arising in connection with the teaching of vocational agriculture, and with administering the "National Educational Act."

Graduate work can be taken during the summer as well as during the regular University terms.

For full particulars about graduate work, the candidate should write to College of Agriculture for special bulletin outlining the work of the Graduate School.

* Courses 4 and 5 are given in alternate years only.

MASTER OF FORESTRY

Graduate courses in forestry are offered leading to the degree of Master of Forestry. A reputable baccalaureate degree is a prerequisite. The major and one minor must be elected from technical forestry subjects. One more may be elected from other divisions of the College of Agriculture or other departments of the University. Full particulars as to requirements will be found in the announcement of the Graduate School, University of Georgia.

ONE-YEAR COURSE

This course commences at the opening of the fall session and continues throughout the collegiate year. The purpose of this course is to provide suitable instruction for those who can only remain in college for one year. An effort has been made, therefore, to condense the work as much as possible, provide a correct scientific foundation and yet make the instruction of a very practical nature. An outline of the one-year course follows:

The laboratory instruction has been emphasized as this is considered the best way of demonstrating the value of applied science to the solution of the problems of the farmer.

Students are required to take English and mathematics unless they can offer satisfactory credits in these subjects. A minimum of 24 hours work is required of students taking the One-Year-Course. The following courses are offered:

Required Subjects

English

Mathematics

Optional Year Course

Bacteriology

Farm Crops

Botany

Farm Management

Chemistry

Horticulture

Dairying

Poultry

Engineering

Soils

Veterinary Medicine

Optional Term Subjects

First Term—Forestry.

Second Term—Feeds and Feeding, and Diseases of Cattle.

Third Term—Breeds and Breeding, Sanitation.

AGRICULTURAL CHEMISTRY (One-Year Agricultural Course)

Fundamentals of Chemistry. The theory of chemistry, and the simple laws of chemical reaction will be treated in a brief, simple manner, and the student will be drilled in the interpretation of reactions, formulas and equations. The more common elements and their simple compounds will be studied, with special reference to those elements and compounds related to farm practice. This part of the course is intended as a foundation for applied studies in the second and third terms, and to enable the student to read agricultural literature understandingly. First term.

The last two terms will be devoted to the application of chemistry to actual farm practice as related to soil fertility, fertilizers, water supply, feeding, spraying and building.

Laboratory. Some of the more common elements and their simple compounds will be studied in the laboratory. This course will include simple exercises with soils, fertilizers, mortar, cement, and domestic water supply. Text, Keitt's "Chemistry of Farm Practice." Two lectures and one laboratory per week.

AGRICULTURAL ENGINEERING (One-Year Course)

Wood Work. This includes the care and use of wood working tools. It will be made as practicable as possible. The majority of the exercises will consist of the construction of articles that will be needed on the farm, such as gates, fences, wagon beds and other farm conveniences. First term. Two laboratory periods. *Associate Professor Clegg.*

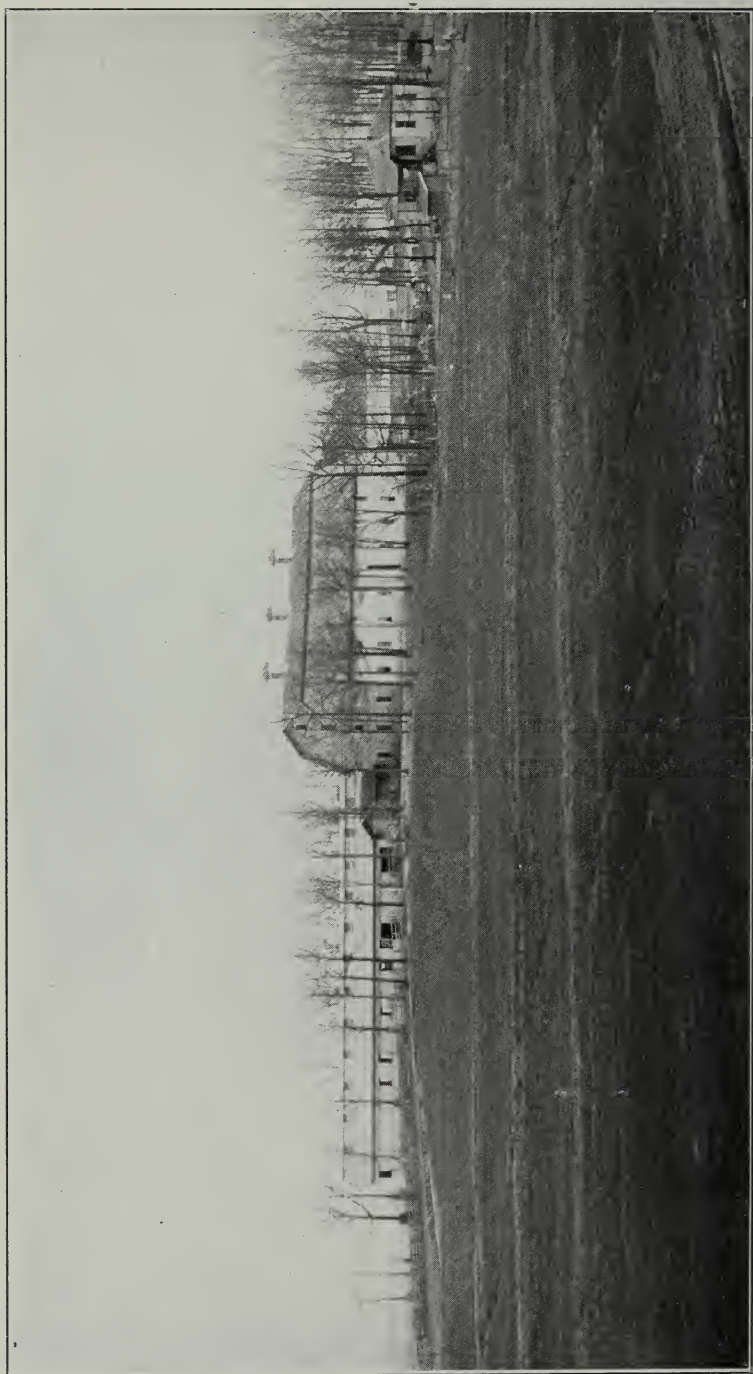
Forge Work. This course includes welding and shaping of iron and handling of steel. Considerable attention will be paid to the making and tempering of small hand tools. A student after taking this course should be able to do all of the ordinary repairs of farm machines and other blacksmithing that will be necessary in farm work. First term. Two laboratory periods per week. *Associate Professor Clegg.*

Farm Machine Judging. A study of the principles of construction and operation is made. Considerable time is given to studying the different farm machines. Some time is devoted to motors, especially gasoline and steam engines. Third term. Two laboratory periods. *Associate Professor Clegg.*

Farm Building and Fences. The strength and adaptability of the materials available for construction are first determined. Principles of construction are studied and considerable time is given to planning the different farm buildings with especial regard to convenience and sanitation. The use of concrete on the farm and principles of concrete construction are demonstrated. Laboratory prac-



A congenial group plays mumble-peg at the noon hour. The "Dramatic Debut of the Co-eds," the "Farmers' Spring Frolic" and the "Junior Frolic" are some of the big social features of the year, held under student and faculty supervision.



This is the College livestock barn and only one-half of it is shown, the dairy section being hidden from view. There is a model dairy herd of Jerseys, Holsteins and Guernseys and large beef herds of Shorthorns and Herefords. The steep hill in the foreground is planted to alfalfa.

tice constitutes an important part of the work. *Associate Professor Clegg.*

Farm Engineering. Instruction is given in the use of the instruments necessary in surveying farm lands and terracing. Some time is given to terracing and leveling. *Associate Professor Clegg.*

Plumbing and Pipe Fitting. A short course in plumbing and pipe fitting is given in connection with farm building. It consists of the location and planning of the water supply and drainage away from the home, and the proper laying out of a perfectly sanitary system of plumbing for buildings. The proper assembling and selection of the material needed for a complete job. *Associate Professor Clegg.*

AGRONOMY (One-Year Course)

Farm Management. General factors in successful farming such as the volume of business, quality of the product, and the necessary diversity. A general review of why certain types exist in certain sections of the country will be made. First term.

How farmers usually get started will be considered. Utilization of capital as a tenant and as landowner will be given special study. Factors that must be considered in buying land, such as the value of improvements, will be presented, so as to help the student in the selection of farms. Second term.

Organization of the farm so that the proper proportion and balance will be maintained from given equipment and capital will be studied in detail. Surveys made in the state will be used to bring out factors in organization. Third term. Three lectures. *Professor Fain.*

Soils. Soil formation and soil types will be considered during this term. First term.

Fertilizer mixing and a general use and application of fertilizers will be considered. Second term.

Maintaining soil fertility will be of special consideration for this term. Such amendments as lime, rock phosphate and humus that may have permanent fertility will be studied. Third term. Three lectures. *Associate Professor Crabb.*

Farm Crops. Cotton will be the principal crop studied during this term. The different classes of cotton, methods of handling them, yields and returns will be studied. First term.

Food crops, principally the cereals, will be considered during this term. Second term.

Grasses and forage crops will be studied with reference to the adaptability to state conditions. Third term. Two lectures and one laboratory. *Associate Professor Childs.*

ANIMAL HUSBANDRY (One-Year Course)

Breeds and Breeding. A practical course will be given in the study of domesticated animals, and a consideration of the fundamental laws underlying their production. Text, "Breeding Animals," Marshall. Three one-hour recitations. Third term. *Associate Professor Martini.*

Feeds and Feeding. In this course a study of the various feeding stuffs for maintenance, development of bone and muscle, production of milk and butter, and for maintaining and fattening farm animals will be discussed and explained. Text, "Profitable Feeding of Farm Animals," Woll. Three one-hour recitations and one laboratory period. Second term. *Associate Professor Martini.*

Stock Judging. Scoring, judging and classifying the various classes of farm live stock will be an important part of this course. After the student has become proficient in the use of the score card, work will be given in comparative judging and show-ring placing. The standard of excellence as established by the several breeders' associations will also be given some attention. Third term. Two laboratory periods. *Associate Professor Martini.*

Dairy Husbandry and Manufactures. This course is devoted to a general course in dairying including the handling of milk and manufacturing of milk products, with the study of milk in the laboratory. It also includes a study of dairy cattle and dairy farm management, pedigrees, breeds and breed history, feeding, breeding record keeping, and all modern methods as applied to milk production and profitable dairying.

BOTANY

A. Plants. A course for one-year students in agriculture. Three recitations or demonstrations per week for one term. *Professor Reade.*

FORESTRY (One-Year Course)

A study of forestry as applied to farm woodlands. How to secure a stand of timber, how to thin, to protect, and harvest the forest crop. First term. Two one-hour lectures and one two-hour practice periods. *Professor Berry.*

HORTICULTURE (One-Year Course)

Orchards. A study of orchards as to location, site, exposure, cultivation, fertilization, planting, pruning, spraying, thinning, harvesting and marketing. Books to be used, "Principles of Fruit Growing." Two one-hour lectures and one laboratory period per week. First term.

Propagation and Pruning. A study of budding, grafting and other methods of plant manipulation and propagation, with a course in

the principles and practice of pruning. Three lectures and one laboratory period per week. Second term.

Small Fruit and Trucking. A course in the management of small fruit plantations and truck gardens, following much the same order as the orchard course. Particular attention will be given to the construction and management of hot beds as well as to the principal small fruit and vegetable crops of the section. Three lectures and one laboratory period per week. Third term.

POULTRY HUSBANDRY (One-Year Course)

Breeds and Breeding. A study of the different breeds and varieties best suited to farm conditions will be made; also the selection, housing, mating and care of breeding stock.

Incubation and Brooding. Natural and artificial incubation and brooding will be considered.

Poultry Feeding. A study of the different kinds of feeds required for growth, production, or fattening for market will be made. Sanitation will be stressed.

Laboratory Work. The different lectures will be followed up with laboratory work giving the student an opportunity to become familiar with the breeds, feeds, incubators, brooders and other equipment useful in the production of poultry. Three lectures, one laboratory. *Associate Professor Wood.*

VETERINARY MEDICINE (One-Year Course)

1. Consists of lectures in the anatomy and physiology of the horse with brief notices of the variations occurring in the other farm animals. First term. Three hours per week.

2. Consists of a brief discussion of pathological conditions in general as they may be observed in farm animals, giving the student an understanding of the underlying causes of disease, fever, inflammation and other common pathological phenomena. A brief discussion of animal parasites and parasitic diseases is included. Second term. Three hours per week. One-year class.

3. Lectures on the common diseases of farm animals, methods of prevention through sanitation and hygienic conditions and the various biological treatments are discussed along with first aid treatment of the sick and injured. Students have an opportunity to observe the cases in hospital and the many operations performed. Two lectures and one two-hour laboratory period per week. Third term.

4. Diseases of Cattle and Calves. In this course the various diseases and abnormal conditions commonly affecting cattle and calves are considered, with especial reference to the diseases of dairy cattle. The aim of the course being to enable the student to under-

stand the underlying causes of such diseases and the means of prevention that may be practiced by the farmer and cattle owner. For students of one-year class who specialize in dairy work. Second term. Three hours per week.

5. Dairy and Farm Sanitation. A course designed for the purpose of instruction along the lines of production of clean milk and maintenance of healthful conditions for farm animals. Especial attention is given to the sources of milk contamination and the spread of disease and the methods to be practiced in the control of infections and parasitic infestations of farm animals and premises. For students of one-year class who specialize in dairy work. Three hours per week, third term. *Dr. Burson.*

Bacteriology. This course is offered in order that the students may have the opportunity to acquaint themselves with the fundamental principles of Bacteriology that are associated with Dairy Inspection. This course will consist of the isolation and growth of bacteria found in the dairy and dairy products. Samples of milk will be taken and studied in regard to kind and number of bacteria present. One lecture and two laboratory periods per week, entire year. *Dr. Burkhart.*

SUMMER SCHOOL

Any of the courses offered in the regular college curriculum will be given during the summer school if as many as five students make application for a particular course. At the discretion of the professor in charge of a division a course may be given to three students.

The summer school presents an excellent opportunity for students to make up back work and to join their classes as regular students the following year without conditions. Sometimes young men wish to graduate in less than four years and to this end take summer courses. Again, some students find that they are unable to take all of the agricultural work which they wish in four years and hence enroll in summer courses.

The regular courses of the college curriculum are not repeated here in as much as they can be found in other sections of this catalog. The special courses listed are for teachers who wish to qualify under the Smith-Hughes Act and to take work in vocational agriculture and home economics.

VOCATIONAL AGRICULTURE

S-1. Introduction to Vocational Education. This will be a continuation of Course 1b and will cover the following topics: development of agricultural education in the United States; agencies, activities, organization and administration of the United States Department of Agriculture; the Agricultural College; secondary schools

and departments of agriculture. This course covers the last half of Course 1 in Agricultural Education. Offered to teachers of vocational agriculture in Summer School, 1920. Two hours a day for five weeks. One and one-half credit hours. *Professor Wheeler or Mr. Maltby.*

S-2c. Methods and Materials in Vocational Education. This is a continuation of Course 2b and will consider the organization of subject matter, planning and presentation of laboratory and class exercises for the last two years of high school work in vocational agriculture; preparation of illustrative materials; observation work. Courses S-2b and S-2c are equivalent to Course 2 in Agricultural Education. One lecture and one laboratory a day for five weeks. *Professor Wheeler and Mr. Sheffer.*

19. Horticulture. A course in fruit growing and pruning offered alternately with Horticulture 18. A systematic discussion of the problems of orcharding in the south with references to other sections. As much time as possible will be given to historical horticulture as an aid to teaching secondary horticulture. Practical work in pruning and orchard management will be required. This course covers the essentials of Horticulture 1 and the first half of Horticulture 2. One lecture and one laboratory period a day for five weeks. College credit, one and one-half hours. Offered to vocational agricultural students in Summer School, 1920. Courses 18 and 19 are equivalent to Horticulture 1, 2, and 3. *Dr. McHatton.*

10. Horticulture: Landscape Gardening. This course is a study of the various schools of landscape architecture and of the plants and material used in producing desirable effects. Special problems pertaining mainly to the development of school grounds will be given each student and drawings showing the student's solution and recommendations will be required. There will be six lectures per week, college credit of one hour being given. Numerous references will take the place of text books. This course is offered in the Summer School for the special benefit of Smith-Hughes students. *Dr. McHatton.*

18a. Types and Breeds of Farm Animals. The history, origin and adaptation to local conditions of the different breeds of farm animals is taken up in this course. Judging of light and heavy horses from the standpoint of the farmer will be part of the laboratory work. Judging of both dairy and beef cattle in connection with milk and beef production and the lard and bacon type of hogs will be studied and judged in detail. Some consideration will be given to different breeds of sheep. One lecture and one laboratory period each day. Offered to teachers of vocational agriculture, 1920. Credit, one and one-half unit hours. *Associate Professor Kaldahl.*

5. Soil Physics. A study is made of the origin of soils, the differ-

ent forms of disintegration, and the physical properties of different types, especially in the relation to crop production. Laboratory experiments are required with type soils. Each student may substitute his home soil for one of the types. This should be an average sample, taken from several places of the most uniform type from his home farm and community. In addition to the text, parallel reading will be assigned. One lecture and one laboratory period. *Associate Professor Crabb.*

6. Soil Fertility. Factors in crop production and methods of controlling these are studied with especial attention to the influence of culture and fertilizing. Methods of managing the soil to permanently increase fertility rather than for temporary crop production are emphasized. Special attention will be given to the uses of commercial fertilizers and general soil management. Parallel reading will be assigned. Second half-year. One lecture and one laboratory period. *Associate Professor Crabb.*

Rural Community Problems. Analysis of the factors, forces and agencies molding the country dweller and the rural community together with their inter-relationships and social implications. Special attention will be given to Georgia conditions and problems with chief emphasis on the relationship of school and community. Two lectures a day for five weeks. Credit, one and one-half hours. *Associate Professor Garnett.*

X. Agricultural Engineering. 4c. Farm Machinery and Farm Motors. Farm motors and farm machinery will be studied separately, all of the latest improved machinery is available for work in the farm machinery laboratory. As much practical work in the care and handling of machinery will be given as possible. Stationary and portable engines will both be considered. One lectures and one laboratory each day for five weeks. *Associate Professor Clegg.*

4b. Teaching Vocational Agriculture, Graduate Course. This course seeks to acquaint the agricultural teacher with means and methods of meeting his instructional and community problems. The course will be divided into three parts as follows:

First Year's Work. Organization of a department of vocational agriculture in a high school, project organization, study, planning, supervision, and supervised practice. *Associate Professor Sheffer.*

Second Year's Work. Extension and coöperative activities in school and community. A community study and plans for community organization required. *Associate Professor Garnett.*

Third Year's Work. Measuring results of work, and writing thesis covering topics names under first and second years. *Professor Wheeler, Associate Professors Shaffer and Garnett.*

VOCATIONAL HOME ECONOMICS

Advanced courses in home economics are provided for teachers who wish to prepare to do efficient teaching in high schools and in part-time and evening classes. They are intended for graduates of two-year courses in home economics or others who have already done at least two years of college work in this subject. In planning these courses the needs of teachers now in the field have been considered, also the requirement of the state vocational board which has announced that after 1921 all teachers in vocational home economics will be required to have four years training. All of these courses carry college credit which may be applied toward the degree. A minimum of thirty recitation hours or the equivalent with laboratory work is required for one unit hour's credit.

S-54. Vocational Education. To train teachers in vocational home economics methods. Development of vocational education; method and content of vocational home economic studies. Six lectures per week. Credit, one hour. *Miss Rathbone.*

S-22. Drawing and Design. Theory and principles of designing with specific applications to household decorations, drapery, linens, clothing, etc. (Vocational home-making aspect). Six laboratories per week. Freshman credit, one hour. Fee, \$1.00. *Miss Rathbone.*

S-32a. Textiles and Pattern Designing. Designing patterns of pictured and original costumes for all kinds of women and children's clothing and for all types of figures and of coloring. Also a study of the characteristics of staple and seasonal textile materials used in clothing and furnishings. Two lectures, four laboratory periods. Credit, one hour. Fee, \$1.00. *Miss Rathbone.*

S-8. Problems in Feeding the Family. For vocational home economics teachers. Survey of Georgia food materials; application of principles of cookery and nutrition previously gained to the proper utilization of foods available in the average Georgia home. Consideration of course of study and methods of teaching. Prerequisite, Principles of cookery, home cookery and table service, general chemistry. Three laboratory periods, three lectures. Equivalent to Home Economics 8. Credit, one hour. Fee, \$3.00. *Miss Campbell.*

S-30b. Health. Personal hygiene, preventative and curative measures in the home. Consideration of content of courses including personal hygiene as a means of preserving and improving the health and efficiency of the human mechanism; care of the sick; first aid to the injured. *Miss Campbell.*

10a. Institutional Cooking and Management. Plans for organization and equipment of institution kitchens, dining rooms, lunch rooms; practical work in marketing, cooking, serving; catering for special occasions. Prerequisites, Principles of cookery, home cook-

ery and table service, general chemistry. Credit, one hour. Fee, \$3.00. *Miss Boggess.*

S14. Work with Batters and Doughs. This course includes a scientific study of batters and doughs including popovers, griddle cakes, muffins, biscuits, bread, cakes and pastries. The leavening agents are studied in regard to composition, reactions, and residues. Various fats and flours will be tested out, showing the difference in quality, quantity and cost, thus giving opportunity for experimental work. Two lectures involve food study, daily dietaries, protein and mineral requirements, and malnutrition of children. The products will be used in the College cafeteria. Three lectures. Three two-hour laboratories per week. Credit, one hour. Fee, \$3.00. *Miss Boggess.*

44. Home Furnishing and Decoration. This course has for its aim a study of the ideals for a home, the considerations in the selection of location and plans for a home; and means of beautifying the home and surroundings by developing as a unit; such places of heating, lighting and plumbing and general construction as affects standards of sound housing; principles of design as applied to the style of architecture, the selection of furniture and furnishings and appreciation of refined color and appropriate furnishing in the home; a house and kitchen plan. Lectures, reports, discussion and reference reading. Credit, one hour for six week. *Miss Campbell.*

VOCATIONAL INDUSTRIAL EDUCATION

MR. CANNON, MR. CLEGG, MR. REID.

The following courses are designed to be helpful to teachers in service or to men wishing to enter service as teachers of industrial or related subjects. They should also be of interest to school superintendents, principals and supervisors who wish to become familiar with the practical phases of industrial and related subjects.

1. Auto Mechanics. This course will include the study of the different types of automobile engines, their construction, operation, adjustment and lubrication; practical shop work, testing, experimenting and lectures on carburetors, ignition, magnetos and batteries; shop work and lectures on clutches, transmission, steering gears, frames and axles. Special methods of teaching auto mechanics classes including shop organization and equipment.

2. Forging. A course in practical forging including a study of iron and steel and their manufacture; building and care of fire, proper heats for treatment of iron and steel. Problems in bending, drawing, twisting, up-setting, scarfing, and welding. Simple tool-making including tempering. *Associate Professor Clegg.*

3. Carpentry. A course in practical carpentry including framing, cutting rafters, stair building, the making and setting of door and

window frames, interior finish, etc. The members of the class will be allowed to choose the phases of work which they are in the most need of help upon.

4. Related Subjects. This course deals with the choosing of subject-matter related to the several trades. Individual trades will be analyzed and suitable arithmetic problems worked out for each trade analyzed. Courses in drawing and trade science, for the trade analyzed, will be given consideration.

5. Organization and Teaching of Smith-Hughes Classes: Evening, Part-time, All-day. This course deals with problems met with in organizing and conducting classes meeting Smith-Hughes requirements. Special emphasis will be placed upon the possibilities of part-time and evening classes in Georgia. The members of the class will be encouraged to submit their problems for general discussion.

6. Pipe Fitting and Plumbing. The purpose of this course is to teach a man to measure, cut, fit and thread iron and steel pipe, to make tight joints, and to do ordinary piping one-eighth to two inches in size directly on the job or from sketches and blue prints.

The course in plumbing will deal with the study of all material used in a complete plumbing job. The setting of fixtures and the proper drainage and venting will be taken up. A complete plumbing layout will be installed. Both yarning and running the joints will be done, also caulking these joints so that they can stand the water test. If as many as ten applicants desire this course it may be given. *Associate Professor Clegg.*

FOREST RANGER SCHOOL

Forest Camp, June 21 to August 15

The Ranger School is created to supply a demand for a short course of training in practical forest engineering, but does not prepare for a position in professional forestry. The object of the work is to make a man, already acquainted with woods work, more efficient in his labor. The school is open to men already in the forest service, woodsmen who desire to prepare for the ranger examination, and lumbermen who desire technical training in timber cruising and surveying.

A number of textbooks will be required in connection with the various courses of study but these may be purchased through the school if the order is placed early. The camp library will contain a good assortment of forest literature and all the important lumber trade and forest journals. The school day will consist of eight hours—8 to 12 o'clock a. m., and 1:30 to 5:30 p. m., with the exception of Wednesday afternoon and Sunday. Work will be arranged for every day of the week.

Expenses. In addition to the regular tuition of \$10, there is a

laboratory fee of \$10 to cover cost of equipment. Board may be had at the camp mess at a very reasonable figure. The mess will be conducted upon a coöperative basis and the indications are that the charge will not be more than \$4 per week.

Admission and Credit. The camp is open to men of good character who have attained an age of 18 years and have completed their grammar school work. Upon completion of the course of study there will be held a "model" ranger examination, successful competition in which entitles a man to a certificate from the school. To those men possessing the necessary qualifications, who desire to matriculate in the Forest School, credit will be given for the freshman summer camp.

Dendrology. The identification of trees and shrubs, native and introduced, common to Georgia and the south. Special stress placed upon characteristics present only in cut logs. Herbarium required from each student.

Surveying. Use of box compass in running lines, pacing, location, platting notes, mapping, methods of survey, resurvey, marking corners. Text, Carey's "Handbook for Northern Woodsmen."

Mensuration. Units of measurement, log rules, estimating timber, use of volume tables, methods of reconnaissance. Text, Graves' "Forest Mensuration."

Lumbering. Study of woods operations, tools used and organization of work, methods of transport, milling. Scientific management of woods operations. Noe-book and report.

Special Lectures. As opportunity offers, arrangements will be made for addresses upon pertinent subjects by Forest Service officials, prominent lumbermen and visiting teachers. Experts in various lines will discuss fire protection, forest tenancy, grazing in the forest, reconnaissance work, camping and woodcraft.

In order to make proper arrangements it will be necessary that all applications be in the hands of the director not later than May 15th.

BOYS' AND GIRLS' SHORT COURSES

A short course of approximately ten days is given every summer for the boys and girls who have won scholarships in the different agricultural and home economics clubs of the state. The short course is also open to boys and girls who do not win scholarships.

Scholarships for the short courses are given by fair associations, chambers of commerce, women's clubs, banks, and other public-spirited organizations and individuals who are interested in stimulating education in agriculture and home economics among boys and girls.

Every year more than 250 boys and girls take advantage of this

elementary instruction which is made very practical indeed and is visualized as far as possible by application and illustration. The short course of 1920 begins August 3.

EXTENSION DIVISION

Under the terms and provisions of the Smith-Lever Act, 250 county agents and home demonstration agents are employed to carry information in agriculture and home economics to the farm home. This work is known as extension service.

The farmer, his wife and his children are enrolled in a big extension school. The boys and girls are enrolled in the clubs and together with their fathers and mothers have a part of the county farm bureau which organization represents the most progressive thought and action in agriculture and home-making as it concerns the moral, social, educational, and economic up-lift in the rural community.

Through its extension service the Georgia State College of Agriculture is intimately in touch with 19,221 boys and 6,553 girls. The demonstrations in home economics and the utilization of food products were attended by 21,041 girls and 45,027 women last year. Two hundred and twenty-six meetings of farmers were held by the extension division with a total attendance of 126,389.

Thus it may be seen that by far the larger part of the student body of the Georgia State College of Agriculture is not in Athens but is located in all parts of the state. The institution has a state for its campus and some of its greatest service work is done with the farmer, his wife and children on the farm and in the farm home itself.

For information on agriculture and home economics see your county agent and home demonstration agent or write to the Georgia State College of Agriculture.

REGISTER OF STUDENTS 1919-20

GRADUATE SCHOOL

Giles, John Kygress	Athens
Wang, Chin Wu	China
Wang, Shan Chuan	Washington, D. C.

SENIOR

Attaway, Eugene	Wrightsville
Avery, Ora Hart	Athens
Bates, Wilhelmina	Jacksonville, Fla.
Brooks, Porter Crowl	Bowdon
Bullard, Evelyn Howard	Monticello
Burson, Susie Marie	Athens
Cabaniss, Emmett Overton	Maxeys
Camp, Jay William	Douglasville
Colclough, Frances Etta	Penfield
Conyers, John Lowrance	Cartersville
Cown, John Almand	Loganville
Creswell, Edith Vaughan	Athens
Dickinson, George William	Union Point
Drexel, Richard Jacob	Tifton
Everett, Taylor Lamar	Cochran
Hampton, Sibyl Mae	Athens
Hodgson, Prince Allen	Athens
Howald, George Adams	Atlanta
Howell, Moses Elijah	Canton
Hull, Leila May	Athens
Lott, Clinton	Douglas
Putney, William Moses	Plainville
Rampley, Mattie Dora	Carnesville
Rigdon, John	Tifton
Roberts, Ottie B.	Douglasville
Robertson, Edith	Dalton
Summerour, Charles William	Duluth
Vaughan, Francis Jerome	Cartersville
Walker, Lois Witcher	Athens
Welch, Alva Curtis	Thomasville
Whitaker, Lee Glanton	Harlem

JUNIOR

Anderson, Marie	Brunswick
Barrett, DuPre	Athens
Benford, Nova	Bowdon
Bennett, Paul Hansell	Quitman
Bohanan, Charles Raymond	Lithonia
Brandon, Susan M.	Dahlongega
Brodnax, Charles Edward	Carrollton

Bruce, Carene Elizabeth	Athens
Burson, Vena	Bowdon
Burton, Jessie	Cartersville
Cox, Howell Boatwright	Toccoa
Daniel, George Calhoun	Danielsville
Dasher, Hampton George	Marlow
Davenport, Iris	Fitzgerald
Davis, Thomas John II.	Savannah
Davis, William John	Meigs
Doolittle, Edna M.	Athens
Drake, James Benjamin	Turin
Edwards, Ernest Aaron	Oxford
Elrod, Julius Mitchell	Jefferson
Feng, Chao Choan	China
Fitzpatrick, Henry Vaughan	Culloden
Gaissert, Irby Frederick	Madison
Garrett, Fred Charles	Columbus
Keener, Rufus Lafayette	Rabun Gap
Kinnebrew, Nannie Mae	Franklin, N. C.
Lyon, Henry Cosby	Clarksesville
Mann, Joe Wheeler	Lyons
Maxey, Herbert Allen	Winder
Middlebrooks, Willie Tom	Starrsville
Morton, Lou Hinton	Athens
McDonald, Donald Bennett	Quitman
McEntire, Ossie	Athens
McLellan, Jas. McAfee	Dalton
Newton, Catherine Lowrance	Athens
Oliver, Eldona	Bogart
Palfrey, Frank Upson	Athens
Rutland, John Thomas	LaGrange
Scudder, Nina	Athens
Sims, James Harrison	Douglas
Soule, Robert Murray	Athens
Sparks, Stella	Athens
Whatley, Clifford Edward	Reynolds
Welchel, Blanche Elizabeth	Gainesville
Welchel, Hugh Calvin	Douglas
Wingate, William Gordon	Camilla
Woodard, Otis	Dexter

SOPHOMORE

Bailey, Herbert Glenn	Cobb
Bookhardt, Jesse Bernard	Powder Springs
Brand, Mack Elmer	Loganville
Brannen, John F.	Statesboro

Brooks, David W. -----	Royston
Childs, Virgil C. -----	Atlanta
Conyers, Christopher Thornwell -----	Cartersville
Cox, John Thomas -----	Macon
Davidson, William Houser -----	Ft. Valley
Davis, Alva Bethel -----	Donalsonville
Day, Ashel Monroe -----	Douglas
Durden, Dessie Brown -----	Graymont
Durden, Rowie Vinson -----	Graymont
Durden, Wilmer Coleman -----	Graymont
Edwards, Troy -----	Monroe
Eskew, Walter Reid -----	Toccoa
Evans, George Reese -----	Savannah
Fagan, James Daniel -----	Ft. Valley
Fain, Fred H. -----	Dandridge, Tenn.
Faulkner, Doc George -----	Monroe
Gorfain, Fredel Mark -----	Savannah
Griffin, Luther Alfred -----	Gibson
Hall, Neil Dowe -----	LaGrange
Harmon, Luther Marion -----	Carrollton
Harris, Ralph W. -----	Wrens
Hastings, Donald Madison -----	Atlanta
Hodgson, Frederick C. -----	Athens
Hodgson, Harold Bishop -----	Athens
Isbell, Clarence W. -----	Dalton
Kemp, Clinton Coleman -----	Powder Springs
King, George Harris -----	Griffin
King, Henry Grady -----	Carrollton
Lanier, Lonnie Richard -----	Metter
Merritt, James Lewis -----	Americus
Miller, Russell Dewey -----	Athens
McMullan, Thomas Leverett -----	Hartwell
McRaine, Malcolm Angus -----	Elmodel
McWhorter, Thurmond -----	Athens
Nix, Ernest Morgan -----	Commerce
Reid, John Franklin -----	Bowdon
Rew, Leland Chadwick -----	Forest, Miss.
Sanford, Charles Steadman -----	Athens
Shepard, Charles Alfred -----	Atlanta
Sibley, Josiah -----	Milledgeville
Slaughter, John Robert -----	Waverly Hall
Stewart, Charles Daniel -----	Shingler
Story, Kenneth Huggins -----	Ashburn
Tucker, David DeJarnette -----	Williamston, S. C.
Westbrook, Loyd -----	Flowery Branch
Wicker, Daniel Lee -----	Warrenton

Williams, Blonnie Hugh	Sylvester
Wilson, William Printup	Thomson
Woodruff, Herbert Emerson	Dacula

FRESHMAN

Aderhold, Omer C.	Lavonia
Armstrong, James R.	Woodville
Baker, Clifford Ward	Ty Ty
Benton, Arthur O.	Fitzgerald
Berryman, Frank B.	Royston
Biggs, Robert Lee	Athens
Bostwick, Wilton Bailey	Arlington
Brockinton, Clarence Elmo	Brunswick
Bruce, David Frank	Athens
Byrom, John Seymour	Byromville
Carlton, William Morton	Union Point
Chandler, Sydney G.	Springfield, W. Va.
Chastain, Fleming DuBignon	Tiger
Coleman, Moses Mathews	Lyons
Collier, Luther Othaniel	Moultrie
Coulter, Iris Paul	Columbus
Cox, Carl	Macon
Crandall, David S.	Ft. Valley
Davis, Elisha K.	Clarkesville
Derden, Henry Watson	Acworth
Durham, Columbus Joseph	Woodville
England, Erastus Lamar	Blairsville
Everett, Harry Wilton	Cochran
Fitts, Claude	Jasper
Gannon, Arthur Francis	Savannah
Gibbs, Mack Willis	Enigma
Gibbs, William John	Pike
Gillespie, John Wynn	Albany
Gray, Lucius Drewry	Griffin
Groover, Arthur R.	Quitman
Harden, Talmadge F.	Commerce
Hardin, Homer Jefferson	Dyas
Hart, George Sibley	Atlanta
Hart, Will Joel	Andalusia, Ala.
Hartley, Hugh Vinson	Ft. Valley
Hasty, Allen Henry	Funston
Henry, Samuel Price	Ringgold
Hill, Lawrence Herndon	Jefferson
Hodges, Charles	Cyrene
Hodges, John William	Jackson
Holmes, Ernest Dexter	Ranger

Howard, John Wesley	Kathleen
Hunter, Fletcher J.	Atlanta
Hyde, Arthur	Newnan
Johnson, Columbus Angus	Carrollton
Jones, William Henry, Jr.	Ft. Valley
Kelley, Clarence Allen	Mitchell
Lamar, John Cary	Augusta
Langley, Lucius Rosser	LaFayette
Lester, James Pitts	Marshallville
Levie, Thurston	Montezuma
Lufburrow, Stephen Brown	Oliver
Lundy, Walter Aubrey	Macon
Maddox, Hubert Henry	Talmo
Martin, Frank Alston	Bainbridge
Michael, Edward Lee	West Carrollton, Ohio
Miller, George W.	Waycross
Miller, James Griggs	Bronwood
Mobley, Mayor Dennis	Dallas
Moon, Joseph W.	Bowman
Moore, Allen Aaron	Savannah
Morris, Harold Mercer	Athens
Murphey, James Paul	Zebulon
McDonald, Gilmer	Winder
McGee, James Baker	Roberta
McLendon, Walter F.	Edison
McMillan, Charles Alton	Monroe
MacPherson, Robert Edgar	Chelsea, Mass.
Nesmith, Edgar Arlo	Portal
Newton, Joseph Barnwell	Woodbine
Oxford, James Morris	Rutledge
Patterson, Young Marion	Homer
Pritchett, Thomas Jordan	Dublin
Reeves, Joel Farley	Thomaston
Roberts, James Stanley	Washington
Scarborough, Donald Dewey	Marietta
Sims, Colquitt	Commerce
Smisson, Hugh Franklin	Ft. Valley
Smith, Fred B.	Bowersville
Smith, Joseph Jaques	Atlanta
Southwell, Byron Lester	Manassas
Strain, Laurens Calvitte	Savannah
Tait, William Lacy	Brunswick
Tanner, Fred	Rabun Gap
Thomas, Horace J.	Jackson



The Animal Husbandry Building which is now partially completed will furnish offices, class rooms and a large live stock judging arena.



The Woman's Building which will be occupied in June 1920. It contains class rooms, laboratories, laundry, gymnasium, swimming pool, and comfortable home-like rooms for students.

Thomas, Howard Otis	Commerce
Thomas, Wallace William	Lavonia
Thompson, Chestnut Arren	Lyons
Tillman, Henry Young	Valdosta
Turner, George A.	Ball Ground
Usry, Marion	Dearing
Vinson, Lamar Olds	Macon
Whatley, Robert Jesse	LaGrange
Whatley, William Troy	Reynolds
Whitener, Thomas Augustus	Dalton
Wingate, Joseph Lamar	Camilla
Woodroof, Jasper G.	Woodbury
Young, Robert Barton	Cedartown

IRREGULARS

Allen, William L.	Boston, Mass.
Barron, Ruth E.	Clarksville
Bishop, James	Watkinsville
Cocroft, Chas. Sanford	Bostwick
English, Arthur H.	Barnesville
Hungerford, Mary	Randolph, Kans.
Hunter, Fletcher Jerome	Atlanta
Martin, James Ray	Burwell
Mitchell, Wilma J.	Calhoun
Neville, Robert J.	Rabun Gap
Rothe, Elmer Sigmund	Hondo, Tex.
Cox, Fletcher, Jr.	Lonoke, Ark.
Sweet, Charles B.	Athens
Harrison, William Henry	Lonoke, Ark.
Dantas, Jose Garibaldi	Natal, Brazil

SPECIALS

Bridges, Daniel H.	Summer
Kicklighter, Henry Gross	Glennville
Lawrence, James Kennedy	Savannah
McAllister, Roselle	Ft. Gaines
McGee, Rosa Blanche	Knoxville
Patterson, Walter Lee	Richmond, Va.
Rumph, Samuel C.	Marshallville
Sweet, Charles B.	Athens
Swift, Addison K.	Woodbine
Thompson, Charles Green	Thomaston
Wiley, Clifton R.	Eastanollee
Watson, Emory F.	Lithia Springs

ONE-YEAR CLASS

Bell, Ralph	Hartsville, S. C.
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Bellamy, Stephen H.	Sycamore
Bowden, Roy Alva	Athens
Broach, Howell Dewey	Campton
Brown, D. Fisher	Cincinnati, O.
Foy, Jesse P.	Statesboro
Harley, William I.	Sparta
Haynie, Seth Stephen	Tignall
Hood, Edwin R.	Atlanta
Jackson, Norman	Hogansville
Lumms, George S.	Jenkinsburg
Miles, Frank Reynolds	Augusta
McCallum, Hugh Archibald	Jeffersonville
McNeill, Robert Duncan	Americus
Stubbs, Esther R.	Ashland, Ala.
Trawick, Andrew Jackson	Linton
Watts, William Angus	Pelham
Zellner, Cecil Theodore	Culloden

UNITED STATES REHABILITATION STUDENTS

Adams, James H.	Leaville
Allen, William Y.	Atlanta
Anderson, Claude	Cartersville
Anderson, Lee J.	Dawsonville
Atkinson, Theodore J.	Cusseta, Ala.
Avirett, Homer P.	Blakely
Attaway, Lucius C.	Wrightsville
Bailey, Reuben U.	Summerville
Baker, Ivy	Moultrie
Barfield, Charlie L.	Hahira
Barney, Oscar R.	Forsyth
Barrett, John W.	Roopville
Bell, Fred O.	Farmington, Tenn.
Bembry, John W.	Unadilla
Berrong, Santford	Hiawassee
Berry, Claud W.	Alto
Biggs, Robert Lee	Athens
Bishop, Judge E.	Atlanta
Blackmon, Archie T.	Lithonia
Blake, Thomas D.	Fairfield, N. C.
Bobbitt, Pierce	Aberdeen, N. C.
Bolton, John W.	Monroe
Bonnell, Harry M.	Atlanta
Boutwell, Gordan A.	Pensacola, Fla.
Bowen, Ulus C.	Aaron
Bracewell, Ira Lee	Glenwood

Brannen, Thomas C. _____	Washington, D. C.
Brewer, Charles W. _____	Maysville
Brewer, Henry H. _____	Athens
Brooks, John G. _____	Comer
Brown, Bill _____	Macon
Bruce, Thomas P. _____	Ila
Buchanan, Warner A. _____	Carrollton
Callahan, John S. _____	Philadelphia, Pa.
Cabaniss, Emmet O. _____	Maxeys
Cagle, Taylor _____	Canton
Cannon, R. D. _____	Forsyth
Clark, Thomas H. _____	Doerun
Clark, William M. _____	Moultrie
Coleman, Sidney P. _____	Dickson, Tenn.
Collier, Paul Ernest _____	Meansville
Collins, Thomas J. _____	Ray City
Connally, William England _____	Vaughan
Cook, Grace B. _____	Bogart
Cordell, Ira Van Duzer _____	Elberton
Cothran, William J. _____	Martin
Courson, Allen W. _____	Waycross
Cox, Lemuel E. _____	Blue Ridge
Craft, W. G. _____	Elberton
Cranford, Edward Felix _____	Cochran
Crisp, James A. _____	Fender
Crockett, James E. _____	Headland, Ala.
Dangle, William _____	Williamsport, Pa.
Davis, Carlton Carlisle _____	Covington
Davis, Herman A. _____	Macon
Davis, Napoleon V. _____	Ideal
Day, Irving M. _____	Monroe
Debardeleben, John E. _____	Deatsville, Ala.
Delk, Alexander W. _____	Jesup
Dickerson, Alexander W. _____	Smarrs
Dickson, Babe _____	Crandall
Dockery, Jesse R. _____	Arnoldsville
Dodd, Frank Patman _____	Hoschton
Dreggors, Luther C. _____	Glennville
Dubberly, Jesse Thomas _____	Baxley
Dunaway, Walter J. _____	Lumpkin
Durham, Walter L. _____	Homer
Dyal, James Edwin _____	Alma
Eason, Lige _____	Iron City
Elmore, Charles _____	Athens
Erambert, Gerald F. _____	Fayetteville

Epting, N. D.	Athens
Fillyaw, Walter Judson	Fayetteville, N. C.
Finley, Burr Josephus	Woodbury, Tenn.
Folds, Thomas E.	Atlanta
Ford, Oscar A.	Ashland
Frost, Loy W.	Washington
Gaddy, Ernest A.	Bennettsville, S. C.
Garland, Thad	Ayersville
Garvin, Lewis	Summit
Gausven, Charles V.	Palmetto
George, James Raymond	Monroe
Gibbs, Harvey Jasper	Canton
Gibbs, Mack W.	Enigma
Gilbert, George Patrick	Waverly Hall
Gillis, Elwood	Soperton
Gilvin, John	Sherburne, Ky.
Goodson, Sanford Amos	Childress, Tex.
Granger, John Frank	Palmetto
Gray, Hillery C.	Hawthorne, Fla.
Gray, Wiley	Autreyville
Green, Calvin D.	Moultrie
Green, Frank Leslie	Red Boiling Springs, Tenn.
Grubbs, Ernest G.	Denton, N. C.
Gunter, Daniel Guilford	Sylvester
Hall, Jesse S.	Talbotton
Hammock, William S.	Conyers
Harrell, John Henry	Goldsboro, N. C.
Harrelson, Albert B.	Tabor, N. C.
Harrison, Robert B.	Conley
Harrison, Thomas C.	Martin
Hart, Charles Howard	Rochester, N. Y.
Hart, George S.	Atlanta
Hendrix, Raymond	Cobbtown
Highsmith, Lonnie Jackson	Cobbtown
Hill, Alpha Omega	Effingham, S. C.
Hill, William Farriss	Hartwell
Hodges, Molten Edward	Davisboro
Hodgson H. B.	Athens
Holbert, Robert Allen	Pulaski, Tenn.
Holcombe, Theodore	Atlanta
Holton, James W.	Bolton, N. C.
Horne, Otis	Hawkinsville
Howe, Lester Edwin	Williston, N. D.
Huff, Benton	Buffalo Valley, Tenn.
Huff, Jacob A.	Montgomery, Ala.

Hughes, Lewis W.	Douglas
Huskey, Jennings B.	Gaffney, S. C.
Jackson, Green Hue	Franklin
Jackson, Robert L.	Mansfield
Jacobs, Noah Curtis	Folkston
James, Henry Lester	Jesup
Johnstone, F. M.	Bullards
Jones, Charlie	Chauncey
Jones, Lyman Y.	Poulan
Kelley, John Grady	Lake Butler, Fla.
King, Hillyer Clark	Cordele
King, H. G.	Carrollton
Kirkland, C. D.	Wray
Lane, Albert H.	Vienna
Langston, Miles E.	Boonville, Miss.
Lanier, George D.	Ellabella
Lanier, Louis Carlton	Garfield
Lance, George F.	Waleska
Law, Coy	Talking Rock
Leonard, Charles Otis	Kennesaw
LeSueur, John Augustus	Bostwick
Lewis, Lester Marshall	Hartwell
Lewis, Ralph Glenn	Smyrna
Little, Arthur H.	Fairburn
Lively, Deed	Trion
Maclure, Mantly A.	Diamond
Maddox, John Feldon	Stone Mountain
Maples, Noah	El Model
Marston, Clifford B.	Augusta
Martin, Alexander F.	Conway, S. C.
Martin, George C.	Arnoldsville
Matteson, Lewis C. S.	College Park
Matthews, Homer	Martin
Merritt, Jesse C.	Rose Hill, N. C.
Meyer, Cecil	Lutz, Fla.
Miller, Bruce	Soperton
Mock, William Leroy	Sylvania
Moon, Charles C.	Powder Springs
Moore, George	Nashville
Mott, William Howard	Butler
Murphy, Sam	Davisboro
McCool, Dennard I.	Blackshear
McDonald, Otis L.	Decatur
McNeail, William West	Alma
McQuaig, J. W.	Nichols

Neely, William Davey	Fairburn
Nesmith, James Leonard	Empire
Noles, Joe	Spring Place
Norsworthy, Inman	Jackson
Nowell, Overton	Cochran
Parham, James R.	Franklin
Parker, T. H.	Strickland
Pearson, Barney Reynolds	Adairsville
Pearson, Claud W.	Augusta
Peek, Willie	Ficklin
Perkins, Ray Littleton	Summerville
Perlmutter, Julius	Russia
Peyton, J. L.	Crawford
Pfeffer, James Arthur	Galena, Ill.
Phillips, Walter C.	Milan
Phillips, William Henry	Swords
Powell, Herbert E.	Hemingway, S. C.
Powell, Otis Fleetwood	Tucker
Powers, Daniel	Lookout Mountain, Tenn.
Puryear, Fred Bender	Dalton
Pyles, James H.	Cairo
Rabey, George G.	Savannah
Riddle, Blanco Hobson	Sanford, N. C.
Rieves, Robert M.	Guntersville, Ala.
Rimes, Palmer H.	Rockingham
Roberts, William Harrison	Toombsboro
Roesel, George C.	Augusta
Rooks, William Leonard	Carrollton
Rumph, Samuel C.	Marshallville
Rutland, John T.	LaGrange
Sanderson, Andy	Plainfield
Sexton, Earl H.	Harriman, Tenn.
Settles, Joseph K.	Coleman
Shanley, Joseph	Atlanta
Shell, Oscar Kettern	Roan Mountain, Tenn.
Shepherd, Don	Jacksonville, Fla.
Shofner, Daniel B.	Shelbyville, Tenn.
Shores, Hirshell Henry	Rome
Silver, L. W.	Spartanburg, S. C.
Simmons, John Pink	Quitman
Simmons, John Robert	Greensboro
Singleton, Robert J.	Stone Mountain
Sloan, James Minor	Cordele
Smith, Davie	Stonewall
Smith, Joseph Gordon	Tignall

Smith, Sim J. -----	Marietta
Spivey, George W. -----	Statesboro
Sumner, Joseph T. -----	Dublin
Taylor, George Daniel -----	Hawkinsville
Taylor, William Aaron -----	Morristown
Thompson, Floyd -----	Greensboro
Thompson, William M. -----	Anderson, S. C.
Thompson, George -----	Adrain
Threadgill, William Hinterson -----	Bullochville
Thrft, Mack D. -----	Winokur
Trapnell, Peniel -----	Metter
Treadwell, Coleman -----	Bethlehem
Tucker, Bass -----	Gallatin, Tenn
Tucker, David J. -----	Williamston, S. C.
Turner, Whit -----	Winston
Urban, Harry D. -----	Atlanta
Vinson, Lamar O. -----	Macon
Walters, Buford Lee -----	Moultrie
Wamack, Richard Harold -----	McMinnville, Tenn.
Ward, Ulric Statham -----	Eufaula, Ala.
Watkins, Julian W. -----	LaGrange
Weathers, Tom -----	Barnett
Weaver, James W. -----	Griffin
Whatley, Robert J. -----	LaGrange
Whitfield, Joseph H. -----	Alto
Williams, James H. -----	Piedmont, Ala.
Williams, John Thomas -----	Acworth
Williams, Robert -----	Milan
Williams, William H. -----	Drexel, N. C.
Wilson, Frank Patton -----	Milner
Wilson, Freeman P. -----	Ft. Payne, Ala.
Wilson, Jahue H. -----	Swiss, N. C.
Wingate, William G. -----	Arlington
Wise, Ralph Q. -----	Savannah
Wolfe, Lawrence Emory -----	Saxonburg, Pa.
Wood, Sherman -----	Athens
Woodroof, Jasper G. -----	Woodbury
Woodruff, Albert M. -----	Athens
Wright, William Pleasant -----	Tate, Tenn.
Yates, Andrew Jackson -----	Blythe

COLLEGIATE SUMMER COURSE

Allen, Wm. L., Jr. -----	Savannah
Anderson, Grace -----	Decatur

Attaway, Eugene	Wrightsville
Benford, Jesse J.	Bowdon
Boney, Melcena	McRae
Bookhardt, Jesse B.	Powder Springs
Brannon, Ethel	Cartersville
Brashier, J. E.	Shubuta, Miss.
Breland, Blish	Washington
Burleson, Gladys	Athens
Burton, Jessie	Cartersville
Bussey, Arthur S.	Waverly Hall
Bussey, T. N.	Arnoldsville
Carvalho, R.	Brazil
Chandler, F. C.	Commerce
Clark, F. B.	Adel
Clotfelter, C. T.	Granite Hill
Cole, J. W.	Dallas
Conger, G. D.	Tifton
Cooley, Mattie Lee	Lowndesville, S. C.
Cromartie, E. G.	Hazelhurst
Creswell, Edith V.	Athens
Cunningham, G. V.	Ellaville
Dowdle, Lois P.	Athens
Drake, Alice	Turin
Dupree, J. T.	Stone Mountain
Eadie, R. D.	Clayton
Findley, Nebraska	Duluth
Firor, Geo. H.	Madison
Fort, W. R.	Morrow
Free, M. E.	Dawsonville
Fry, Henry Lee,	Clarkesville
Gilstrop, L. A.	Pickens, S. C.
Gomez, Octavio	Brazil
Holbrook, Kate	Maysville
Howell, M. E.	Canton
Hubbard, C. S.	Baldwin
Ingram, C. B.	Barney
Land, Emma	Columbus
Looper, Harry S.	Dalton
McCleskey, Jas. L.	Granite Hill
McCord, A. S.	Hodges, S. C.
McElhannon, Eva	Jefferson
McGee, Rosa	Knoxville
McKee, M. W.	Statesboro
Neville, Walter E.	Rabun Gap
O'Kelley, A. A.	Clayton

Oliver, J. G. -----	Athens
Rampley, Mattie -----	Carnesville
Shackelford, Pearl -----	Lexington
Seagraves, Carl -----	Eastanollee
Shultz, C. -----	Dahlonega
Sorrells, J. Clifford -----	Monroe
Sutker, Nathan -----	Savannah
Ticknor, Ruth -----	Albany
Tucker, Lucy -----	Albany
Whelchel, Blanche -----	Gainesville
Whelchel, E. V. -----	Douglas
Wilkinson, T. H. -----	Camilla
Williams, Mrs. H. L. -----	Baxley
Wilson, Clifford -----	Douglas
Wright, Homer, Jr. -----	Summitt

SUMMER COTTON GRADING COURSE

Ayers, W. G. -----	Bowman
Berryman, W. R. -----	Royston
Bissell, Byron -----	Newton Grove, N. C.
Breen, F. E. -----	Jesup
Caldwell, J. P. -----	Barnesville
Carey, W. G. -----	Royston
Carvalho, R. -----	Rio de Janeiro, Brazil
Crawford, C. R. -----	Lexington
Farr, H. P. -----	Lexington
Garland, T. A. -----	Toccoa
Gheesling, W. C. -----	Norwood
Gomez, Octavius -----	Pernambuco, Brazil
Graham, W. C. -----	Eastman
Highsmith, L. J. -----	Cobbtown
Leonard, C. O. -----	Kennesaw
McKnight, P. R. -----	Senoia
Moorhead, O. A. -----	Buckhead
Norsworthy, I. -----	Jackson
Palfrey, F. W. -----	San Antonio, Texas
Park, Arthur -----	Atlanta
Quinn, H. C. -----	Dalton
Reynolds, Roy M. -----	Covington
Rieves, R. M. -----	Gunnelsville, Ala.
Rowland, Hampton -----	Athens
Scarboro, A. C. -----	Royston
Silas, F. D. -----	Macon
Treadwell, C. -----	Bethlehem
Vineyard, L. M. -----	Hogansville
Whelchel, W. K. -----	Cordele

Wilkes, R. M.	Adel
Wray, R. E. L.	Atlanta

HOME ECONOMICS, SHORT COURSE

Anderson, Grace	Rome
Andrews, Edith	Athens
Allen, Floride	Augusta
Baker, Mae	Ocilla
Berrong, Mrs. J. M.	Hiawassee
Bethea, Maggie	Reidsville
Bond, Mrs. E. G.	Columbus
Bozeman, Estell	Atlanta
Burge, Margaret	Decatur
Carter, Lois G.	Savannah
Clark, Martha	LaFayette
Clark, Tassie O.	Tifton
Cleveland, Emmeline	Cairo
Champion, Beulah	Roberta
Collier, Lurline	Jefferson
Collins, Lorine	Douglasville
Colclough, Jewel	Maxeys
Crews, Georgia	Macon
Dorsey, Elizabeth	Athens
Dorsey, Mrs. A. R.	Athens
Dowdle, Lois P.	Athens
Dowdy, Willia V.	Watkinsville
Floyd, Woffie	Calhoun
Forrest, Lilla	Boston
Fortson, Jessie	Columbus
Hart, Mrs. C. H.	Athens
Little, Cecile	Athens
Little, Erma	Commerce
Merritt, Madge B.	Sylvania
Matthews, Stella	Bainbridge
Massey, Clemmie	Wrightsville
McCoy, Addie	Homer
Morris, Sara	Brooklet
Morrison, Mabel	Eastman
Nisbet, Mrs. W. R.	Athens
Norman, Mary	Kirkwood
Overby, Mary	Sylvester
Powell, Leona H.	Cambridge Springs, Pa.
Parker, Mrs. H. J.	Baxley
Russell, Harriette	Winder
Shannon, Floy	Atlanta

Shelor, Ethel	Dublin
Schley, Mortimer	Columbus
Skinner, Louise	Athens
Smith, Sara	Hawkinsville
Thompson, Ruby	White Plains
Thorpe, Mrs. L. V.	Valdosta
Wilcox, Alia	Hawkinsville
Wigley, Mary	Cullman, Ala
Williams, Edna M.	Americus
Whatley, Mrs. V. D.	Carrollton
White, Hettie	Chipley
Wood, Annie Mae	Athens

BOLL WEEVIL SCHOOL

Adams, Cleveland	Social Circle
Anderson, Joe K.	Starrsville
Archer, Flavius J.	Sparta, R. D. 1
Arnold, David J.	Hampton
Arrendale, J. V.	Clayton
Bagley, E. M.	Yatesville
Barrett, Harry	Harrison
Bazemore, Jackson F.	Griffin
Bedingsfield, Walter P.	Wadley
Benford, Jno. W. H.	Bowdon, R. D. 2
Blackwell, R. L.	Conyers
Blanchard, Tom F.	Harlem
Blasingame, Wm. G.	Jersey
Boatwright, Chas.	Swainsboro, R. D. 1
Bolton, Chas. M.	Winterville, R. D. 2
Bottenfield, Floyd	Decatur, R. D. 1
Brooks, Harry K.	Washington
Brown, W. S.	Monroe
Bryant, Hugh C.	Maxeys
Burger, David N.	Athens, R. D. 3
Burke, Mason T.	Ogeechee, R. D. 2
Bussey, Wm. B.	Chauncey
Callaway, Randall E.	Athens, R. D. 2
Calhoun, Frank B.	Blakely
Carnes, Wm. E.	Jonesboro
Carroll, Howard H.	Atlanta, R. D. 3
Carter, Jas. H.	Newborn
Chandler, Carl N.	Athens
Clements, Wm. S.	Adrian
Clotfelter, Charles T.	Granite Hill
Coart, Leroy H.	Talbotton, R. D. 3
Cobb, John E.	Watkinsville, R. D.

Colley, Thomas N. -----	Grantville
Colley, Chas. S. -----	Grantville
Cook, John E. -----	Mansfield, R. D. 1
Cotton, Eli B. -----	Grantville
Couch, James C. -----	Rome, R. D. 10
Crandell, Fred R. -----	Fort Valley
Dailey, Sam -----	McDonough, R. D. 3
Dailey, Warren C. -----	McDonough, R. D. 3
D'Antingnac, Kell -----	Griffin
Davis, Russell E. -----	Meigs
Davidson, B. M. -----	Shady Dale
Doughtry, Allen -----	Allentown
Downs, Alva C. -----	Watkinsville
Drake, T. G. -----	Yatesville, R. D.
Drake, Wilmarth W. -----	Turin
Dumas, T. G. -----	Watkinsville
Dye, Hobson -----	Glenn, R. D. 1
Edmondson, Samuel A. -----	Cedartown
Edwards, Robert E. -----	High Shoals
Ellington, Grady -----	Oxford
Evans, Sam C. -----	Wadley
Ferrell, Fortune C. -----	LaGrange
Flanders, James F. -----	Dublin
Ford, Wm. H. -----	Pinehurst, R. D. 3
Freeman, Jas. L. -----	Hoschton
Garbutt, Gordon S. -----	Deepstep, R. D. 2
Gilmore, Geo. -----	Warthen
Goodson, Robert L. -----	Pelham
Harmon, Chas. C. -----	Stovall
Hawkins, E. C. -----	Americus
Hays, Hubert C. -----	Buford, R. D. 2
Heath, C. Earl -----	Cave Springs, R. D. 1
Herring, Geo. L. -----	Pinehurst
Hightower, Chas. T. -----	Hogansville
Hodges, Robert J. -----	Andersonville, R. D.
Hogan, Wm. J. -----	Hoganville, Box 23
Holder, Curtis -----	Rome
Holleman, Geo. B. -----	Dublin
Holman, Jas. A. -----	Sargent, R. D. 1
Hubbard, James -----	Wadley
Hughes, Hugh L. D. -----	Danville
Hurt, Sherwood L. -----	White
Ivey, Orlando M. -----	Mayfield, R. D. 1
Ivey, Wm. J. -----	Loganville, R. D. 3
James, Thomas J. -----	Adrian

Jarrell, Howard D. -----	Athens, Normal Station
Jones, Alvin R. -----	Pelham, R. D. 1
Jones, Clarke T. -----	Buford, R. D. 2
Keith, L. W. -----	Newnan
Kesley, Jas. W. -----	Winder, R. D. 5
Knox, Wm. T. -----	Social Circle
Leonard, Wm. H. -----	Kennesaw, R. D. 1
Luck, J. K. -----	Covington
Marchman, Cornele W. -----	The Rock
Marks, Timothy L. -----	Mansfield, R. D.
Mathews, Geo. W. -----	Fort Valley
Matthews, Frank E. -----	Plains R. D. 3
Mathis, Geo. A. -----	Millen R. D. 2
McCall, G. F. -----	Manassas
McClure, Joe T. -----	Carrollton, R. D.
McConnell, Mrs. Lincoln -----	Thomaston, R. D.
McGarr, Walter J. -----	Millen, R. D.
McLanahan, Jephtha S. -----	Lumber City, R. D. 1
McWhorter, Geo. E. -----	Milledgeville
Meadors, Jack -----	Covington, R. D. 1
Morris, Jas. P. -----	Silvercreek, R. D. 1
Morton, Jas. W. -----	Athens, R. D.
Morton, Tunis W. -----	Athens, R. D. 1
Nolan, Clarence F. -----	West Point, R. D. 1
Oliphant, Joe G. -----	Wrens
Owen, Samuel F. -----	Pinehurst, R. D. 1
Owens, C. J. -----	Covington
Owens, Jesse E. -----	Lithonia, R. D. 1
Paul, John A. -----	Wadley, R. D. 2
Pennington, Ed -----	Covington, R. D. 1
Pennington, Brooks M. -----	Madison R. D.
Perkins, Linton S. -----	Pineora
Pittard, Myrick B. -----	Winterville
Pitts, Julius E. -----	Newborn
Porter, Jno. C. -----	Cedartown
Rainey, Robert -----	Willard
Ray, Andrew -----	Devereaux
Reid, John F. -----	Eatonton
Reynolds, R. M. -----	Covington, R. D. 1
Richards, Chas. F. -----	Carrollton, R. D. 1
Richter, John C. -----	Madison
Riis, John -----	Milledgeville, R. D. 2
Robertson, Ed H. -----	Thomaston
Robertson, A. D. -----	Cleveland
Roche, Wm. P. -----	Dublin

Ross, Geo. N.	Montrose
Rowland, Levin C.	Louisville
Rutledge, Marshall E.	Loganville, R. D. 3
Sappington, S. E.	Yatesville
Sewell, Joe W.	Newnan, R. D. 3
Schroeder, Henry	Elbetron, R. D. 5
Sharpe, Ramsey C.	Rome, R. D.
Sinquefield, W. R.	Louisville
Skinner, N. J.	Covington, R. D. 4
Smith, A. W.	Tennille
Smith, Oliver J.	Rydall, R. D. 1
Smith, Wm. J. J.	Bogart, R. D. 1
Stewart, Al. J.	Union Point, R. D. 1
Thompson, Nathan J.	Hamilton
Thorpe, Walter M.	Ashburn
Thurmond, L. B.	Athens, R. D.
Titrud, Ole Lee	Mt. Berry
Treanor, Terry	Milledgeville
Tuck, Claude	Winterville, R. D. 1
Tucker, Harper P.	Milledgeville, R. D. 3
Upshaw, Dan	Covington
Wallace, Rellie E.	Villa Rica, R. D. 1
Warthen, W. B.	Davisboro
Watkins, Fred S.	Wadley, R. D. 2
Watson, Jas. L.	Pelham
White, Paul F.	Atlanta, R. D. 3
Wilbanks, Chadwick A.	Trion
Williams, Leroy	Monticello, R. D. 3
Willie, Edwin N.	Louisville
Wilson, Wm. A.	Hampton
Winn, G. L.	Newnan
Woodall, Marion I.	Dallas, R. D. 2
Wood, Bryant A.	Vienna, R. D. 6
Wooten, W. S.	Milledgeville
Young, Geo. C.	Tennille
Young, Wm. L.	LaGrange
Young, J. T.	Milledgeville

CORN CLUB BOYS, SHORT COURSE

Adams, Fred	Mansfield
Adams, John Oscar	Covington
Beckham, Wm.	Concord
Bonner, Robt.	Manchester
Bradley, Roy	Americus
Brown, Alex Comer	Elberton

Brown, Bruce	Louisville
Brown, Thurston	Cairo
Carter, Dewey	Cordele
Cheshire, James	Atlanta
Clotfelter, Chas. North	Granite Hill
Clotfelter, Max	Granite Hill
Coleman, Dewey	Cordele
Collu, Earle Wilson	Cochran
Crouch, John Will	Lutherville
Daniel, Walter	Americus
Darden, John Henry	Gabbettville
Dewberry, Henry	Acworth
Dixon, Eugene	Fayetteville
Dodson, Lewis	Flovilla
Duncan, Arvel Eugene	Stonewall
Durham, Thomas	Eatonton
Fagan, Edgar	Cummings
Garrison, Pierce	Rochelle
Gibson, James	Albany
Goolsby, J. H.	Monticello
Goolsby, Roswell Powell	Monticello
Graham, Chas. I.	Loganville
Gunter, Wm. Sanders	Point Peter
Hall, Karl	Bartow
Haney, Maurice	Smyrna
Hardeman, Rasburn	Athens, R. 1
Hazlerings, Morris	Atlanta, R. 3
Herring, Ernest	Calvary
Higdon, Robert	Cairy
Hill, Woodfin	Winder
Howell, Daniel Brewster	Atlanta, R. 7
Hughes, Louis	Cairo
Hunt, Geo. Riley	Kathleen
Jeffries, James	Cairo
Johnson, Ellis	Baxley
Joiner, Francis	Tennille
Jones, David	Edison
Jones, David Jefferson	Dublin
Jones, Hughes	Cochran
Jones, Joseph	Cairo
Kelley, Earle Vernon	Carrollton
Keown, James	Rayle
King, Pierce	Grovetown
Kinsey, Harold	Camak
Lowe, Elzie	Powder Springs

Martin, G. V.	Jackson
Martin, John Edward	Covington
Matthews, Max	Cordele
Matthews, Sam	Cordele
Merkison, Jefferson	Donaldsonville
Milam, Roy	Stilesboro
Miller, Clifford H.	Milledgeville
Miller, Kingsley	Marietta
Moody, Powell	Atlanta, R. 2
Moody, Tom	Atlanta, R. 2
McDaniel, Clark	Thomaston
McGahee, Milo	Dearing
McGinnis, Guilford	Commerce, R. 14
McKisick, Chas.	Monroe
McNeice, Stanley	Thomaston
Nelson, Jesse Clifford	Thomaston
Nichols, Solomon	Baxley
Orr, Fritz	Athens
Orr, Douglas	Athens
Patman, John Henry	Blackshear
Peel, Burnice	Miller
Perdue, Charles Leon	Decatur
Pirkle, Princeton	Baxley
Poole, James	Conyers
Power, F. C.	Marietta
Prince, Cicero	Bolingbroke
Pulliam, Rufus	Eastanollee
Purcell, Leland	Odum
Reed, Gordon	Oakwood
Roddenberry, Fred	Cairo
Russel, Dela	Woodland
Sherfield, Carroll	Irwinton
Shirley, Stonewall	Plains
Simonton, Amos Davidson	Franklin
Sims, Hermon	Comer
Smith, Harold	Norwood
Smith, Jim	Sargent, R. 2
Smith, Leon	Monticello
Smith, Robert	Flovilla
Strozier, Cyrus	Rayle
Tabor, Lewis	Fort Valley
Thomas, Robert	Climax
Turner, Carlton	Nicholson
Vaughn, Hal	Athens

Vick, Marshall	Newnan, R. 1
Vines, Dewitt	Whitesburg
Waters, Monroe	Blackshear
Whitaker, Vernon	Harlem
Williams, Emil	Grovetown
Williams, Lawrence	Howard
Woodward, Robt. L.	Bainbridge
Wright, Henry	Cairo
Yarborough, Wm. Owen	Aragon

CANNING CLUB GIRLS, SHORT COURSE

Aaron, Nellie	Millen, R. F. D.
Alday, Collie Mae	Vienna
Allison, Bonnie	Dalton
Amos, Lillie	Donaldsonville
Arnett, Dorothy	Mt. Pleasant
Bennett, Francis	Macon
Black, Josiella	Finleyson, R. 2
Bridges, Dean	Sargent
Brown, Jewell	Catoosa
Buchanan, Rosie	Eastman, R. 2
Burges, Grace	Washington
Byles, Oma May	Valdosta
Callaway, Lois	Griffin
Carlton, Ruth	Moultrie
Chapman, Mattie	Macon
Cheatham, Mildred	McRae
Collins, Emma	Dunwoody
Conner, Lois	Jackson
Conner, Pearl	Dahlonega
Darden, Christine	Sumner
Darden, Lena	Carrollton, R. 3
Davis, Gladys	Statesboro
DeLoach, Mary L.	Americus
Donaldson, Cora Lee	Dalton
Donaldson, Rebecca	Vienna
Dorough, Aline	Vienna
Durden, Minnie Lee	Macon
Evans, Nell	Griffin
Fennille, Bernice	Harrison
Flowers, Pearl	Jesup
Forrester, Iva	Monroe
Gobel, Ethel	Collins
Godard, Nellie	Griffin
Gould, Eunice	Bethel
Graham, Corene	Eastman, R. F. D.

Greenway, Lucile	Barton, R. 3
Greene, Verma	Thomson
Hall, Inez	Swainsboro
Hall, Rosalie	Tignall
Harris, Evelyn	Vienna, R. 5
Harvey, Mary	Hagan
Harper, Lessie	Broadhurst
Head, Elizabeth	Athens
Holcomb, Sallie Kate	Buchanan
Holland, Mary	Collins
Howard, Ivy	Dover
Jackson, Ethel	Forsyth
Jester, Ethel	Atlanta
Johnson, Lavonia	Millen, R. F. D.
Johnson, Nancy	Hazlehurst
Jones, Eva Mae	Carrollton, R. 2
Jones, Emeline	Blackshear
Kitchens, Mattie	Covena
Lane, Thelma	Claxton
Lanier, Mollie	Millen, R. F. D.
Landrum, Fannie L.	Watkinsville
Landrum, Ruby	Stephens
Lay, Mamie	Atlanta
Littlejohn, Lois	Rome, R. 9
Lebey, Mary	Savannah
Longham, Camilla	Thomson
Lynn, Myrtle	Chipley
Lynn, Annie	Collins
Massey, Terah	Columbus
Miles, Mina	Baxley
Minter, Laura	Monticello
Morrell, Susie	Americus
McBride, Addie	Cedartown, R. 6
McCartey, Mabel	Ideal
McCown, Lucy	Rockmart, R. 5
McInvale, Tressie	Ideal
McLanahan, Annie	Elberton
Newton, Alice	Moultrie, R. 2
Nixon, Jewell	Carrollton, R. F. D.
Paulk, Eleanor	Ocilla
Paulk, Edna	Ocilla
Perkins, Nettie	Winder
Perkins, Louise	Wadley
Pilcher, Lula	Preston
Rawlins, Christine	Eastman

Reed, Ella	Blakely
Richards, Edith	Carrollton
Robertson, Mary	Savannah
Rogers, Ruby	Danielsville
Sapp, Ralph	Savannah
Shirah, Trudie	Camilla
Shultz, Mary	Hartwell
Smith, Cleo	Monticello
Smith, Lillie Mae	Statesboro
Smith, Kate	Screven
Sowell, Cassie	Halcyondale
Sprouse, Emma	Blakely
Suddeth, Jessie	Athens
Summers, Louise	Senoia
Terrell, Madge	Cornelia
Towery, Estelle	Blairsville, R. 3
Vanlandingham, Mrs.	Wrightsville
Vanlandingham, Sarah	Wrightsville
Walls, Irene	Cordele
Waters, Isabelle	Blackshear
Warren, Mary	Rome
Welsh, Geneva	Dublin, R. 6
Wellington, Louise	Atlanta
Wilhite, Sarah	Jefferson
Winn, Ruth	Carrollton, R. 2
Woolridge,	Midland
Yawn, Louise	Chauncey, R. F. D.
Young, Ruth	Tennille

SUMMARY OF REGISTRATION**LONG COURSES**

Master of Science in Agriculture.....	3	
Bachelor of Science of Agriculture.....	195	
Bachelor of Science of Home Economics.....	28	
Doctor of Veterinary Medicine.....	9	
Irregular students	16	
Special students	10	
One-year course in Agriculture.....	18	
Rehabilitation	250	
Total in long courses		529

SHORT COURSES

Collegiate summer course	62	
Cotton Grading School	31	
Home Economics summer course	53	
Boll Weevil School	160	
Boys' Club short course	104	
Girls' Club short course	108	
Total in short courses		518

SUMMARY

Total in long and short courses	1,047
Counted twice	10

TOTAL NUMBER STUDENTS ENROLLED.....1,037

INFORMATION BLANK

Name in full-----

Present address-----

Permanent or home address-----

Age-----Number of years spent in school-----

What school or schools have you attended?-----

What is your religious faith?-----

Are you a member of any church?-----

Are you in good physical health?-----

Have you been vaccinated?-----

Please underline the course or courses in which you are most interested: Agricultural Chemistry, Agricultural Engineering, Agricultural Journalism, Agronomy, Dairy Management, Experimental and Research Work, Farm Management, Floriculture, Forestry and Forest Engineering, Fruit Growing, Greenhouse Management, Live Stock Raising, Plant Breeding, Plant Pathology, Vocational Education, Veterinary Medicine.

What do you expect to do when you finish college?-----

SOME FACTS

1. The Georgia State College of Agriculture has a farm of 830 acres. Its plant and equipment are worth approximately \$1,500,000.
2. There has been an increase of 69 per cent in attendance. The attendance upon both long and short courses was 1,037.
3. The College of Agriculture has been given a Motor Transport Corps and a Cavalry Unit by the War Department in recognition of its excellent service in training detachments of men for the World War.

HOW TO ENTER COLLEGE

The first thing to do is to fill out the information blank in the back of this catalog and forward it to the proper authority. Then, have your teacher fill out an official entrance blank, copies of which have been supplied to all schools in the state. Extra copies of the blank may be secured from this office.

The information given in the entrance blank as to your school credits is absolutely necessary for your entrance into college. Please do not come to Athens expecting to enroll as an agricultural student without first having sent in this vital information. Special students and students in the one-year course do not have to submit the official entrance blank. The blank in the back of this catalog is sufficient.

A young man wishing to enter any of the four-year courses and not able to offer the necessary 15 units for entrance may stand examinations. These examinations will be given in June and September, in Athens and throughout the state.

Women wishing to enter the Home Economics Courses or courses in general agriculture should apply to Miss Mary E. Creswell for special entrance blanks.

If you wish to room in one of the college dormitories, please send Mr. T. W. Reed, Registrar of the University, a reservation fee of \$2.00. This amount will be returned to you if you do not occupy the room.

When you come to Athens, please report to the Agricultural Section in the Academic Building of the University. This office will be open at all times.

Bring about one hundred dollars with you in New York Exchange or Money Order, for board and room rent must be paid in advance, and books should be purchased as early as possible from the college coöperative book store. Please do not bring your money in the form of a check.

For further information please write

ANDREW M. SOULE, President,
Georgia State College of Agriculture,
Athens, Ga.

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